# YOUTH'S INTRODUCTION Social To Hewlett Trade and Business:

CONTAINING,

I. Tables of the most usual Clerk-like Contractions of Words; with proper Directions how to Address Persons of Elevated Rank, and those in Office.

II. Acquittances and Promissory Notes divertified, and adapted to such Circumstances as occur in Real Bu-

III. Variety of Bills of Parcels, and Bills on Book-Debts, to enter the Learner in the Manner and Methods of Commerce, and to make him ready at Computation.

IV. Bills of Exchange, with necessary Directions for the right Understanding and Management of Re-

mittances; several Orders for Goods, Letters of Credit, Invoices, and other Merchant - like Examples.

V. Authentic Forms of such Law-Precedents, as are most frequently met with in the Course of Traf-

VI. Small Collections of Questions interspersed, to exercise the Learner in the Common Rules of Arithmetic, to use him to Calculation, and to bring him acquainted with the Use, the Properties and Excellency of Numbers, by way of Recreation.

The FIFTH EDITION, Corrected, Augmented, and confiderably Improved.

By M. CLARE, Master of the ACADEMY in Sobo-Square, London.

By whom Youth are Boarded, Educated, and qualified either for the University, the Compting-house, or the Publick Offices.

LONDON, Printed for E. SYMON, against the Royal - Exchange, in Cornbill. MDCCKL.

### YOUTH'S INTRODUCTION

## Trade and Bulinels:

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## Master GEORGE ONSLO

Only Son of the Right Honourable ARTHUR ONSLOW, Efg. Speaker of the Honourable House of Commons.

DEAR SIR!



ROM the large experience I have had of your excellent Capacity, and your aimiable Disposition, I have pregnant hopes of your becoming one day a confiderable, that is, a wife, a good, and a useful Man.

FROM this expectation it is, that I am ambitious of prefenting you this Edition of a small Work, which I have the pleasure to imagine will be of service to You, Sir, when You come to dip into NUMBERS; la Qualification equal, if not superior in value, to the most of what we learn besides.

#### DEDICATION.

Your Worthy Father sits, where he has been long a witness of the advantage, with which the Calculist and Accomptant are always heard. And no wonder; fince arguments, drawn from Arithmetical computations, carry with them uncommon weight, having their foundation in Reason and in Truth. I am,

Specified of the Honorable Honle of Commens

DEAR SIR,

Soho Square, Jan. 1, 1748.

Your most Affectionate, and

good, and a utdul Men.

experienced I have had of your excellent Capato esqual transpara svad I most of most Obliged, Humble Servant, day a confiderable, that is, a wife, a

... I't ou this expediation it is that I am ambinous of prefanting you this Edition of a finall Work, which I have the pleafure to will be of fervice to You Sir, when You come to dip into Sign Chartin equal, if not superior in value, to the right

## The PREFACE,



N the commerce of the world, dispatch in business is no ordinary accomplishment; which being the result of a well-directed education, it cannot be amis, in a Treatise of this nature, to touch on those parts of it, which are more immediately necessary for forming the man of business.

AFTER the youth's first years have been employed in READING his native language, and proper care has been taken to explain and inform him of the meaning and force of words, as they present; the next step is to initiate him in the rudiments of GRAMMAR: In which, at first, nothing is more material, than to be very particular in the regular division and formation of syllables. While this is doing, it is necessary for him to learn to write; in which, the Teacher will find sufficient reason to exercise his vigilance, and to guard against the ill habits his charge will be apt to contract, both in posture and performance.

'Trs not my design, to describe at large what part of Grammar-learning is most necessary for this end, nor to trace out the methods by which it is to be effected; those must be left to the skill and discretion of his instructor: I shall, therefore, only recommend two things, not generally made use of.

I. If the scholar be enjoined to copy all his exercises, after correction, into a fair book, it will not only point out to him his mistakes, and inform him how to mend them; but will even insensibly improve his hand, and fix it in a bold and manly character.

II. As

II. As the principal end of instructing a youth, designed for business, in the Latin tongue, is to make him a greater master of his own; the way to apply, and render it most effectual to that end, is to use him frequently to English translations. The meaning and sense of his authors will thereby be impressed on his mind, with greater advantage, and in time, he will acquire a clear, just, and natural manner of expressing his thoughts, on all occasions; to which, if the reading of good authors in our own language be added, a due proficiency may be expected, not only in spelling and propriety of stile, but also in that elegance and good sense, which distinguish one man from another, and are absolutely requisite for all, that hope to be considerable in the world.

As the French Tongue is, at present, the general language of Europe, and consequently most proper for correspondence, it ought to be recommended to the learner, among his Grammar studies, when his parts will admit of so great a variety; but not before he is sufficiently grounded in the Latin, from whence the French is chiefly derived.

WRITING must always be regarded as an effential part of every day's employment; because the free and clerk-like manner of writing, fit for the dextrous dispatch of business, is not attainable by speculative notions, or on a sudden, but by practice gradually, under the direction of an able master; nor can any other means be depended on, to make the hand easy, bold, and masterly.

ARITHMETIC now must be entered on; in teaching which art, the ensuing Treatise will be of some advantage: The bills of parcels, and those on book-debts, are such examples of computation, as daily occur in commerce, and which are of use to illustrate the practical rules, and apply them to business. The variety of promissory notes, acquittances, bills of exchange, with directions relating to them and things of like nature, are all intended to give the young clerk a taste and idea of the customs and usages of dealers, and to obviate the difficulties

TRANSCRIBING and computing the invoices and other mercantile precedents, will yield him a no less profitable exercise, and conduce, in some measure, to the understanding the practice of Book-Keeping; a science so universally useful, that, without keeping regular accompts, the trader risques the sacrificing an improvable fortune, to negligence and chance; the man of estate is thereby made subject to frequent impositions, always to uncertainties; and the man in office is likewise exposed to numberless perplexities; and indeed, none can properly be said to be a judge of business, whose abilities, how considerable soever, are not affisted by some insight and skill therein.

THE collections of questions interspersed, all of them solvable by the rules of common Arithmetic, are subjoined, to exercise the pupil in numbers, to accustom him to calculation, and, with a design, to excite his curiosity, to look farther into their properties and use, not only as they regard themselves, but also as they respect lines, surfaces and solid bodies.

DRAWING is an attainment worth every man's pursuit; but it is indispensably necessary for the mechanic: Since, among its many other advantages, he is thereby able to convey his designs to the apprehensions of others, by a sketch off-hand, with much clearness and certainty.

GEOGRAPHY, as it informs us of the fituation of the several parts of the earth, the distance and bearing of places, the extent, language, religion, and products of different countries; as it is the key to history and the publick news, and needful to the forming a right judgment of our country, its interest and concerns; is of too great importance to be neglected. To these more necessary qualifications of the man of business, the practical parts of the Mathematics, as Measuring, Gauging, Surveying, Navigation, are to be considered as very advantageous and useful additions: The more speculative parts, as Geometry, Astronomy, with Experimental and Natural Philosophy, and Algebra, are also informations that give a sublime and noble turn of thought; and which, they may not seem occurrences in immediate business or commerce, yet do they frequently conduce to the improvement of both, and are always amusements highly proper for the virtuous and intelligent mind.

I HAVE supposed the learner of a promising genius and teachable disposition; happy in parents able and willing to allow him an handsome and proper education; and happy in teachers, who want neither capacity nor integrity in their calling. Where all these do not concur, the missortune is not easily retrieved. When once the time of youth is last, the cares of life are so great and many, that sew or none are ever able to recover themselves from the low condition always attending to the want of a proper and early education,

DRAWING is an attainment worth every man's purfuit; but it is indifferentially necessary or the montraic; Since, among its many other adventuges, he is theneby able to convey his

Caoona pure, as it informs us of the function of the forcial parts of the cartin, the distance and bearing of places, the extent, language, religion, and products of different countries; it is the key to history and the publicle news, and coefful to the forcing a right judgenerate of our country, its laterest and concerns; is of too great importance to be neglefied.

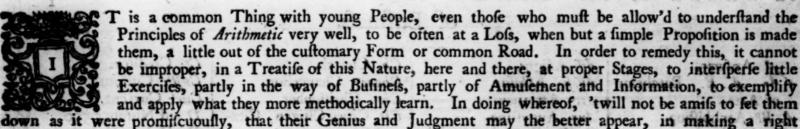
of others, by a sketch off hand, with subth clearness and cor-

M. CLARE.

## YOUTH'S INTRODUCTION

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## Trade and Business, &c.



Choice of the Rule and Method fit to produce the Solution of the Thing proposed.

#### RECREATION I.

L WRITE down the Value of the following Numbers in Words at Length, viz. 370087. 418427900. 6210003745. 41027308751. 293417604712. 618002030694713.

Usually a less literal Number placed on the lest Hand of a greater augments its Value; on the right, diminishes it. The chief Roman Numbers are, I, 1. V, 5. X, 10. L, 50. C, 100. D or I, 500. M or Cl, 1000. I, 1000. Is 5000. Is 50000, &c. Tenfold when repeated: So CCI, is 10,000.

A Line drawn over any Number less than a Thousand, intimates so many Thousands, as; LXX, is 70,000. C, is 100,000. and M, a Million.

II. Decypher the following Numbers, and find their Sum, IV. VI. IX. IIX. XIII. XLV. LXXXI. XCVI. CXC. CD. DCC. MCL. MDCXLVIII. MCCM. IDDIDCCCLVII. VI CCLXXXX.

Anfwer, 1017297.

III. In Figures express: A Million and half in South-Sea Bonds. Ninescore and fourteen Thousand, eight Hundred Sheep. Threescore and twelve Thousand, thirteen Hundred Weight of Lead. Fifteen Thousand and fourscore Million of Styvers. One Hundred and two Thousand, two Hundred and six Million, seventy Thousand seven Hundred and seven Ryals of Plate. Three Million and thirty-three Thousand and thirty Pieces of Eight. Four thousand and forty Hundred Pounds thirty-four Shillings and sourteen Pence, sive Farthings.

IV. For the Practice of Figure-making, in even Ranks, fet down all the Numero's in the State-Lottery, as

they rife successively, between 7500 exclusive, and 8000 inclusive; and find their Sum.

and Bulinels, &c.

Anfwer 3875250,

## A TABLE of the Clerk-like Contractions of Words, for Dispatch

Anfwer. A. B. Batchelor of Arts. A. Br. Archbishop. Abr. Abraham. A. D. Anno Domini. Acct. Accompt. Adml. Admiral. Admr. Administrator. Age. Against. Alex: Alexander. a. m. before Noon. A. M. Mafter of Arts. A. M. in the Year of the World. Amb: Amount. Am. Amsterdam. And. Andrew. Anth. Anthony. Ar. Arthur.

All. Affigns. Affefr. Affeffor, Atto Attorney. Aug. Augustine. B. D. Batchelor in Divinity. Barth. Bartholomew. Bart. Baronet. Benj. Benjamin. Br. Bishop. Brite. Britain. Bur. Burlace. Bulb! Bufhel. B. V. Bleffed Virgin. Bucks. Buckinghamshire, C. in Number 100. . a Hundred Weight. Capt. Captain. Chap. Chapter. Cha. Charles.

Ch. Church. Chance Chancellor. Chr. Christopher. Cit. City, Citizen, Citadel, ada saulorg Clem. Clement. Cl. Clerk, Clergyman. C. P. S. Keeper of the Privy-Seal. Co. County. Col. Colonel. Colle Collector. Comp. Company or Co. Com". Commissioners. Conft. Constable. Conte. Contents. Correspondent. Counfel Counfellor. C. S. Keeper of the Seals.

Cr. Creditor. Cufto. Custom. Curt. Current. D. in Number 500. D. Duke, Dukedom, Duchy, or Duchess. D. D. Doctor in Divinity. d. a Peny. Dan. Daniel. Dav. David. Dd. Delivered. Den. Denis. Dep. Deputy. Devon. Devonshire. Do Ditto, the fame. Dr. Debtor, Doctor. Dor. Dorothy. Dorfet, Dorfetshire. Dy. Day. E. Earl.

E. Earl, Evening or Eaft. E. A. P. Priest of the Church of England. Edm. Edmund. Edw. Edward. e. g. for Example. Elen. Eleanor. Eliz, Elizabeth. Efar. Esquire. Engd. England. Excelle Excellent. Exa. Example. Exo. Exchange. Ex. Executor. Exon. Exeter. fl. the Ending, full. Ft. Fort. Fr. French. Fra. France. Factor. Factor. Frd. Friend. fd. the Ending, ford. F. R. S. or R. S. S. Fellow of the Royal Society. Fran. Francis or Frances Fred. Frederick. Fret. Freight. Gab. Gabriel. Gar. Garrison. Geo. George. Gent. Gentleman. Gen! General. Genmo. Generalissimo. Ger. Gerrard. Gilb. Gilbert.

Governor.

Grt. Great. Greg. Gregory. Gr. Gross. Han. Hannah. Hants. Hampshire. Hen. Henry. Honbl. Honourable. Hond. Honoured. Honry. Honours. Holld. Holland. Hum. Humphry. I. in Number 1. Fac. Jacob. James. Feo. Teoffry. fer. Jeremiah, 7. D. Doctor of Laws. Infta. Instance. Inft. Instant. Impl. Imperial. ibid. in the same place. i. e. that is. id. the fame. Inft. Inftal. 7nº. John. Jon. Jonathan. Fos. Joseph. Just Justice. Ingent. Ingeneer. Kg. King. Knt. Knight. Kath. Katherine. L. Fifty in Number. 1. Book. Lau. Laurence. Ldy. Lady. Leo. Leonard.

Lew. Lewis. Ld. Lord. L. S. the Place of the Seal. Lop. Lordship. Laip. Ladyship. Lieut. Lieutenant. Lib. Liberty. f. a Pound Sterling. lb. a Pound Weight. Lancast. Lancashire. Londo. London. Lvd. Lvdia M. in Number 1000. Ma. Mary. M. Monsieur, Marquis. Madm. Madam. M. A. Master of Arts. Maty. Majesty. Mar. Margaret, Martha, Marjery, Mat. Matthew. Ma. Martin. M. D. Doctor of Phylick. Md. Memorandum. Mr. Mafter. Mrs. Miftress. Math. Mathematicks. Meffrs. Masters. Merch! Merchant. Mich. Michael, Michaelmas. Minr. Minister. Midda. Middlesex. Meafr. Meafure. Mon. Month. Mof. Moses.

Monfr. Monfieur. Mis. Manuscripts. M. S. Sacred to the Memt. the Ending ment. Nat. Nathanael. Neb. Nehemiah. Nic. Nicholas. N. North. N. B. Remark. North. Northampton. No. Number, Numero. Nr. Neat, or Netto. N. S. New Stile. ob. Half-peny. Obj. Object. Obedt. Obedient. Or. Our. Ordr. Order. O. S. Old Stile. Oli. Oliver. Omnipt Omnipotent. Ow. Owen. Oxon. Oxford. Pd. Paid. ₩ bv. Cent. by the hundred. Pat. Patrick. Partr. Partner. Parlmt. Parliament. Pet. Peter. Philomath. a Lover of Learning. Ph. Philip. p. m. Afternoon, Principl. Principal. Proct. Proctor.

Prop. Proposition. Preft. Prefent. 9. Question. grt. Quart. q" Quantity. gr. quarter or ! part. Ra. Ralph. Ran. Randal, Randulph. Rich. Richard. R. King or Queen. Rt. Right. Retn. Return. Reftr. Rector. Rend. Reverend. Regt. Regiment. Royl- Royal. Recd. Received. Reb. Rebecca. Remr. Remainder. Receiver. Regr. Register. Rob. Robert. Rog. Roger. Rol. Roland. Rotto. Rotterdam. Salop. Shropshire. Sar. Sarah.

& South.

Sr. Sir. S. or St. Saint. Ad the Ending Read. fd. faid. Sergt. Sergeant. Sh. Shire. s. a Shilling. Servi. Servant. Secry. Secretary. Scotld. Scotland. Sim. Simon. Sol. Solution. Spa. Spanish. Spirit! Spiritual. S. T. P. Doctor of Divinity. Steph. Stephen. Templ. Temporal. Theo. Theophilus. The. Thomas. Tim. Timothy. Tob. Tobias. Tot. Total. Treaf. Treasury. Tr. Tare. Tr. Tret. V. in Number 5. vain.

Solole Tholes.

viz. that is to fay. v. fee. gr. verfe. Val. Valentine. Vin. Vincent. Ven. Venerable. Vier. Victualler. Vicr. Vicar. wk. week. Wal, Walter. W. Weft Wards. Warden. Westmr. Westminster. Wm. William. Win. Winifred. Wilts. Wiltshire. w. weight or weighing. w. what. web. which. with. with. w" when. Worl. Worshipful. Wort. Worthip. wond! wonderful. X. in Number 10. X. Chrift. Xan. Christian. Xtms. Christmas.

ye the. y" then. yor. your. vors. yours. y'- this. yt. that. & and. &c. and fo forth. Zach. Zachary. January. Fan. February. Feb. Mar. March. April. Apr. May. May. Fun. Tune. Tuly. Ful. August. Aug. Sept. September. yber. ÓA. October. 8ber. Nov. November. aber. Dec. 10ber. December. Xbr.

#### RECREATION II.

A Person dying, left his Widow the Use of 5000 l. To a Charity he bequeathed 846 l. 10 s. To each of his three Nephews 1230 l. To each of his four Neices 1050 l. To twenty poor House-keepers five Guineas each, and 200 Guineas to his Executor: What must he have died possess of?

A Nobleman, going out of Town, is inform'd by his Steward, that his Corn-chandler's Bill comes to 123 l. 19 s. His Brewer's to 41 l. 10 s. His Butcher's to 212 l. 6 d. To his Lordship's Baker, is owing 24 l. To his Tallow-chandler, 13 l. 8 s. To his Taylor, 137 l. 9 s. 9 d. To his Draper, 74 l. 13 s. 6 d. His Coachmaker's Demand was 214 l. 16 s. 6 d. His Wine Merchant's, 68 l. 12 s. His Confectioner's, 16 l. 2 s. His Rent 82 Guineas. And his Servants Wages, for half a Year, came to 46 l. 5 s. What Money must be fend to his Banker for, in case he would carry with him 50 l. to defray his Expences on the Road.

Answer 1108 l. 18 s. 3 d.

A Merchant buys up fix Bags of Canterbury Hops, No 1. of which weigh'd, Cwt. 2. 2. 10. No 2.

Cwt. 2. 1. 16. No 3. Cwt. 2. 0. 24. No 4. Cwt. 2. 3 only. No 5. Cwt. 2. 1. 12. No 6. Cwt. 2. 1. 16. befides a couple of Pockets, Do that weigh'd lb. 58 each: How many Hundred-weight has he to pay Carriage for, on bringing them to Town?

Answer Cwt. 15. 2. 27.

A Corn-factor buys seventy Quarter of Oats, for 46 l. 7 s. 6 d. thirty eight Quarter of Beans, for 100 l. twelve Quarter of Peas, which cost 16 l. 16 s. eighty-eight Quarter of Barley, for 73 l. 8 d. sixteen Ditto of Wheat, for 56 l. 9 s. 10 d. and six Quarter of Rye, for 4 l. 1 s. 6 d. The Water Carriage of all comes to 13 l. 2 s. 7 d. his Riding Charges to 1 l. 13 s. and if he clears eighteen Guineas by the Bargain, what do his Bills of Parcels amount to?

Answer 330 l. 9 s. 1 d.

The Collector of Cash has been out with Bills, and gives Account, that A. paid him 13 l. and half a Crown; B. 2 l. 13 s. C. 14 s. and a Groat; D. 1. 9 s. 8 d. 1. E. 11 l. 6 d. 1. F. 17 s. and a Tester; G. 12 s. 2 d. H. a Pound and half a Guinea; J. a Moidore and 13 s. K. two Broad-pieces of 23 s. each, a Jacobus of 25 s. and a Shilling; L. nine Pound and a Mark; M. 12 l. 12 s. N. a Bank Note of 15 l. and O. three Crown-pieces and an Angel: What Cash has he in Charge?

Answer 76 l. 2 s. 6 d. 1

In a Gentleman's Service of Plate, there are fourteen Dishes, weighing oz. 103. 13 dwt. Plates thirty-six, weighing oz. 421. 11 dwt. Four Dozen of Spoons, weighing oz. 104. 6 dwt. Six Salts chas'd, weighing oz. 32. Knives and Forks, weighing oz. 83. 9 dwt. Four Presenters, weighing oz. 113. 4 dwt. In Mugs, Tumhlers, Beakers, and other odd Pieces, weight oz. 264. 18 dwt. A Silver Tea-Kettle and Lamp, weighing oz. 126. 9 dwt. and the rest of that Equipage, oz. 93. 2 dwt. What Quantity of Plate had the Butler under his Care.

Answer oz. 1432 12 dwt.

A Horse in his Furniture is worth 35 l. 10 s. out of it 12 l. 12 s. How much does the Price of the Furni-

ture exceed that of the Horse?

Answer 10 l. 6 s.

A. of Amsterdam, is Debtor to B. of Bristol. For Mercery Wares as & Factory, 418 l. 2 s. 6 d. For forty Cwt. of Cheshire-Cheese, 52 l. 18 s. For English Broad-Cloth, fifteen Pieces, 317 l. 12 s. 10 d. For nineteen Fodder of Lead, 320 l. For twelve Tons of Bar-Iron, 173 l. 3 d. For eight Tons of Copper, 1110 l. 10 s. 1 d. For his Acceptance of a Bill drawn, 88 l. 14 s. For another paid for Honour 50 l. Ten Dozen Merocco-Skins, 28 l. 15 s. 4 d. Paid Convoys, Insurances, and Port-charges, 43 l. Ware-house Room, Postage, Sledage, Boatage, and incidental Charges, 5 l. 5 s. The Factorage of all came to 112 l. 6 s. For what Sum must B. draw to clear the Accompt?

Having a Piece of Ground, 127 Foot in Front, let off to A. 57 Foot to build on at one End, and to B. at first 27 Foot and 1 from the other, which he afterward by Consent extended to 42 Foot; what Ground was left

me in the Centre?

Answer 28 Foot.

How much is A. (born fixteen Years ago) elder than B. who will come into the World fourteen Years hence?

Answer 30 Years.

Aving observed the Mistakes young Persons are liable to, for want of an Opportunity of informing themselves of the Stile and Titles due to Persons in Office, and those of elevated Rank and Fortune, it cannot
be improper, in this Place, to shew the proper Directions and Address from Inseriors to Persons of Distinction, the Chief of which being known, the rest will be attained without much Difficulty.

\*\*Note, The Terms of Address are put in a different Character.

#### To the Royal Family.

TO the King's most Excellent Majesty. Sire, or May it please Your Majesty.

To his Royal Highness, Frederick Prince of Wales. May it please Your Royal Highness.

And in like manner to any other of the Royal Family, changing what is to be changed.

#### To the Nobility.

TO His Grace L.\* Duke of D.\* My Lord Duke, Your Grace.
To the most Noble P. Lord Marquis of C. My Lord Marquis, Your Lordship.

The Learner is to substitute real Names and Titles in the Place of these initial Letters all through.

To the Right Honourable 7. Earl of B. My Lord, Your Lordship.

To the Right Honourable G. Lord Viscount T. My Lord, Your Lordship.

To the Right Honourable T. Lord O. My Lord, Your Lordsbip.

The Wives of Noblemen are addressed in Terms equal to their Husband's Rank.

The Title of Lord and Right Honourable is given, by Courtefy, to all the Sons of Dukes and Marquisses, and to the eldest Sons of Earls; and the Title of Lady to all their Daughters: The younger Sons of Earls are all Honourable and Esquires.

The Sons of Viscounts and Barons are stiled Esquires and Honourable, and their Daughters are directed to, as the Honourable Mrs. N. N. but without other Stile; they have however Rank among the first Gentry without

Title.

The King's Commission confers the Title of Honourable on any Gentleman in a Place of Honour or Trust.

The Stile of Right Honourable is due to no Commoner, but such as are Members of His Majesty's most Honourable Privy-Council; except the three Lord Mayors, of London, York, and Dublin, and the Lord Provost of Edinburgh, during Office.

Every confiderable Servant to the King, upon the Civil or Military Lift, or to any of the Royal Family, is

Stiled Esquire, pro tempore.

P. C. in the Margin denotes a Privy-Counsellor, and therefore Rt. Honourable

#### To the Parliament.

T O the Right Honourable the Lords Spiritual and Temporal, in Parliament of Great-Britain, affembled.

My Lords; May it please Your Lordships.

To the Honourable the Knights, Citizens and Burgesses, in Parliament of Great-Britain, assembled. Gentlemen, May it please Your Honours.

P. C. To the Right Honourable Sir G. H. Speaker of the Honourable House of Commons, Sir.

#### To the Clergy.

TO the most Reverend Father in God W. Lord Archbishop of C. My Lord, Your Grace. To the Right Reverend Father in God E. Lord Bishop of L. My Lord, Your Lordship. To the Right Reverend the Lord Bishop of G. Lord Almoner to His Majesty.

#### DIRECTIONS for SUPERSCRIPTIONS.

To the Rev. Mr. or Dr. (according to their Degree) A. B. Dean of C.\* — Chancellor of D.\* — Archdeacon of E.— Prebendary of F.— Rector of G.— Vicar of H.— Curate of J.—

The proper Address to these last Gentlemen is in general only, Sir. Deans and Archdeacons are called Mr. Dean, and Mr. Archdeacon.

#### To the Officers of His Majesty's Household.

They are generally Addressed to according to their Rank and Quality, but sometimes according to their Office; as My Lord Steward, My Lord Chamberlain, Mr. Comptroller, Mr. Vice-Chamberlain.

In Superscriptions of Letters, that relate to Gentlemen's Employments, their Stile of Office ought never to be omitted.

#### To the Commissioners and other Officers on the Civil List.

To the Right Honourable R. Earl of W.—\*Lord Privy-Seal.— Lord President of the Council.—

Lord Great Chamberlain.—Earl Marshal of England.—One of his Majesty's Principal Secretaries of State, &c.

To the Right Honourable the Lords Commissioners.—\*Of the Treasury.—Of Trade and Plantations.—
Of the Admiralty, &c.

Note, If there be a Nobleman or even a Commoner, who is a Privy-Counsellor, among any Set of Commissioners, it will be proper to stile them collectively, Right Honourable. The usual Address then is; Your Lordships.

To the Honourable the Commissioners of—\*His Majesty's Customs.—Revenue of Excise.—Duty on Salt. For his Majesty's Stamp-Duties.—For Victualling his Majesty's Navy, &c.

These Blanks are also to be filled up as before, with Names and Dignities, and made so many distinct Directions, repeating always the general Stile preceding the Blank.

#### To the Soldiery.

TO the Honourable A. B. Esq; Lieutenant General.—Major General.—Brigadier General of His Majesty's Forces. Sir; Your Honour.

To the Right Honourable J. Earl of S. Captain of His Majesty's—First Troop of Horse Guards.—Band of Gentlemen Pensioners.—Band of Yeomen of the Guard, &c.

To the Honourable Colonel Thomas Pitt. To Major Foubert. To Captain Audley, &c. Sir.

To the Principal Officers of His Majesty's Ordnance. Your Honours.

To A. B. Esq; Lieutenant General. Surveyor General of the Ordnance, &c.

#### To the Officers of the Navy.

TO His Grace C. Duke of D. Lord High-Admiral of Great Britain. Your Grace.

To the Right Honourable G. Lord Viscount T. Vice, or Rear Admiral of Great Britain.

To the Honourable Sir P. Q. Admiral of the Blue.—Vice Admiral of the Red.—Rear Admiral of the

White. Sir; Your Honour.
To Captain R. L. Commander of his Majesty's Ship the Shoreham, riding at Spithead.

#### RECREATION III.

A Trader failing, was indebted to A. 71 l. 12 s. 6 d. To B. 34 l. 9 s. 9 d. To C. 16 l. 8 s. 8 d. To D. 44 l. To E. 66 l. 7 s. 6 d. To F. 11 l. 2 s. 3 d. To G. 19 l. 19 s. And to H. a Fine of thirty Marks. At the time of this Difaster, he had by him in Cash, 3 l. 13 s. 6 d. in Commodities, 23 l. 10 s. in Household Furniture, 13 l. 8 s. 6 d. in Plate, 7 l. 18 s. 5 d. in a Tenement, 56 l. 15 s. in recoverable Book-Debts, 87 l. 13 s. 10 d. Supposing these Things faithfully surrender'd to his Creditors, what will they then lose by him?

In the City of Pekin in China, is a Bell weighing, 'tis faid, 120000 Pounds, at Nankin, in the fame Country, is another weighing 50000 Pounds. The first exceeds the great Bell at Erfurd, in Upper Saxony, by 94600 Pounds: How much then is the German Bell inferior in Weight to the Second?

Answ. Near one half.

A Robbery being committed on the Highway, there was affessed on a certain Hundred, in the County of & the Sum of 373 l. 14 s. 8 d. of which the four Parishes paid 37 l. 16 s. 4 d. apiece, the four Hamlets 28 l. 3 s. 10 d. each, the four Townships 19 l. 19 s. each; what was the Deficiency?

Answ. 30 l.

Received in lieu of two Gold Repeaters, sent to Jamaica, in 1730. the five Chests of Indigo following; and on a like Adventure, in 1732. the subsequent five Chests: The Question is, how much Indigo I had less the second

Time than the first?

Anno 1720.	Cwt. qr. 1b.	16.	Anno 1732.	Gwt. gr,	16.	16.
Nº. I.	2-1-16	Tare-43.		1 - 3 -		
	2-2-11			1 - 3 -		
	2 - 0 - 12		3.	1 - 2 -	- 10	30.
	2-0-19		4.	I - 0 -	- 13	27.
	2-3-17		5.	2-0-	- 11	34.
			Mary Land R Lan	i it is al	Anfw.	lb. 342.

A. made a Bond for 1141. 10 s. the Interest came to 191. he then paid off forty Guineas, and gave a fresh Bond for what was behind. By the Time there was 131. 4s. 8 d. due on the second, for Interest, he paid off 37 l. 14s. 2 d. more, took up the old Bond, and signed a new one still for the Residue. The Principal again ran on till there was 9 l. 11 s. 3 d. more due, and then he determined to take it up. Pray what Money had his Creditor

Anfw. 761. 11 s. 9d.

Received from my Factor, at Alicant, an Account of Sales of Tin, to the Value of 197 l. 12 s. Sterling; of Bee's Wax, to 71 l. 7 s. 6 d. of Stockings, to 47 l. 3 s. 6 d. of Tobacco, the Net proceeds whereof were 943 l. 15 s. 10 d. of Cotton, 123 l. 3 s. 7 d. and of Wheat, to the Amount of 116 l. 5 s. 6 d. he at the same time advises that he has, & Order, shipped, for my Account and Risk, Alicant Wines, to the Value of 226 l. 16 s. 6d. Figs, of 157 l. 11 s. 3 d. Fruit, ninety Chests, cost 104 l. 6 s. Olives, 136 l. 10 s. Oil, 193 l. 17 s. Raisins, 143 l. 4 d. and Spanish Wool, to the Value of 73 l. 13 s. 8 d. the Commission of the whole Consignment came to 71 l. 18 s. 11 d. The Question is, which of us is to draw for the Difference, and how much?

Answ. 391 l. 14 s. 3 d. is to be remitted by him.

1. B. and C. open an Account with a Banker, Jan. 11. 1739. and put into his Hands, viz. A. 17 l. 17 s. B. 34 l. 11 s. 6 d. C. 28 l. 18 s. 10 d. On the 21st A. withdrew 9 l. 10 s. and C. advanced 12 l. and a Crown. The 24th B. called for 6 l. 10 s. The 30th C. wanted 19 l. 8 s. 4 d. On the 12th of Feb. B. deposited with him eleven Broad Pieces and three Moidores. On the 19th A. sent for 5 l. and a Noble more; but on the 24th, turned him 1 d. On the 2d. of March, C. paid in twenty Guineas, and B. drew for fix. The 14th B. sent in 1 d. 11 d. 12 s. 6 d. On the 19th, they sent for five Guineas a Man, and on the 19th A. had back, 12 l. 2 s. 6 d. On the 19th, they sent for five Guineas a Man, and on the 19th and the Sum, and ten Marks a-piece more: How much did their said Banker owe them jointly

ady-Day?

Anfw. to A. 39 l. 11 s. 2 d. B. 62 l. 11 s. 6 d. C. 49 l. 8 s. 10 d.

W. X. Y. Z. fend in their Money to the Bank, and draw upon it in the following Manner, viz. June 4. 1740. Z. fent in 70 l. 8 s. Y. had 116 l. 14 s. 10 d. remaining on Balance, and the 14th fent in 120 l. more. W. paid in 47 l. 18 s. 2 d. in Cash, and deliver'd a Bank Note for 200 l. X. paid in a Bill of Exchange, on a good Man, for 33 l. 14 s. 9 d. and in Cash, made it up 100 l. Y. on the 16th drew for 43 l. 12 s. 6 d. and on the 20th Z. for eleven Guineas. W. on the 24th added 14 l. 12 s. 10 d. and X. withdrew 47 l. 10 s. 8 d. Y. on the 28th paid in 18 l. 5 s. and two Days after drew for 88 l. 13 s. 4 d. W. sent for sixty three Guineas on the 30th, and in five Days after for 15 l. 10 s. 9 d. more. Z. on the 7th of July, demanded 12 l. 8 s. 3 d. and X. 7 l. 3 s. 1 d. Z. on the 15th remitted them, 31 l. 12 s. 4 d. and PAssignment, they received for him at the same time double that Sum. Y. required 81 l. 19 s. 8 d. on the 12th, and W. 10 l. 10 s. Y. three Days after that sent in 42 l. and W. 52 l. On the 19th X. sent for 31 l. 18 s. 10 d. and the 24th paid in 19 l. 19 s. The Question is how stood these Gentlemen's Cash severally, and what Money can they jointly raise?

Answer W. 2221. 7 s. 3d. X. 331.6 s. 5d. Y. 821. 14 s. 4d. Z. 141 l. 5 s. 9d.

A Merchant at his Out-fetting in Trade owed 280 l. He had in Cash, Commodities, and good Debts 11505 l. 10 s. He clear'd the first Year by Commerce 393 l. 13 s. 1 d. What at the Year's End was his neat Balance?

Anfwer 116191. 35. 1 d.

#### The Superscriptions and Terms of Address continu'd.

#### To the Ambassadry.

TO His Excellency Sir A. B. Bart. His Britannick Majesty's Envoy Extraordinary, and Plenipotentiary to the Ottoman Porte. Your Excellency.

To His Excellency C. D. Esq; Ambassador to His most Christian Majesty. Your Excellency.

To His Excellency the Baron de E. His Pruffian Majesty's Resident, at the Court of Great-Britain. Your Excellency.

To Seignior F. G. Secretary from the Republick of Venice, at London. Sir.

To Seignior H. 7. Secretary from the Great Duke of Tuscany, at London,

To K. L. Esq; His Britannick Majesty's Consul, at Smyrna,

#### To the Judges and Lawyers.

TO the Right Honourable M. Baron of N. Lord High-Chancellor of Great-Britain. My Lord, Your Lordsbip.

P. C. To the Right Honourable Sir O. P. Master of the Rolls. Sir, Your Honour.

P. C. To the Right Honourable Sir R. S. Lord Chief Justice of the King's Bench—Of the Common-Pleas.

My Lord, Your Lordship.

To the Honourable Sir W. W. Lord Chief Baron of the Exchequer.

To the Honourable G. S. Esq; one of the Justices of the Court of Common-Pleas. Or, to Judge S. Sir. Or, May it please you, Sir.

To Sir S. M. His Majesty's Attorney Solicitor Advocate-General. Sir.

To Y. Z. Efq; Serjeant-Barrifter, or, Counsellor at Law. Sir.

To Mr. Edward Buftle, Attorney at Law. Sir.

\* N. B. Upon the Circuits and when they fit fingly, every one of the Judges are addressed to and treated with the same Respect and Ceremony as the chief Justices.

#### To the Lieutenancy and Magistracy.

T O the Right Honourable S. Earl of B. Lord Lieutenant, and Custos Rotulorum of the County of H. To P. E. Esq; High Sheriff for the County of C. Mr. High Sheriff; Sir.

To the Right Honourable Sir A. B. Knight, Lord-Mayor of the City of London. My Lord, Your Lordship.

To the Right Worshipful C. D. Esq; Alderman of Tower Ward, London.

To the Right Worshipful Sir E. F. Recorder of the City of London.

To the Worshipful G. H. Esq; Mayor of C. Sir, Your Worship.

To the Worshipful J. K. Esq; one of his Majesty's Justices of the Peace for the County of S. Your Worship. To L. M. Esq; Deputy Steward of the City and Liberty of W. Mr. Deputy; Sir.

#### To the Governors under the Crown, &c.

TO His Excellency J. Lord C. Lord Lieutenant of the Kingdom of Ireland. Your Excellency. To their Excellencies the Lords Justices of the Kingdom of Ireland. Your Excellencies.

To the Right Honourable J. Earl of L. Governor of Dever-Castle, and Lord-Warden of the Cinque-Ports. My Lord, Your Lordship.

To the Right Honourable C. Lord Viscount D. Constable of the Tower.

To His Excellency J. H. Esq; Captain General and Governor in Chief of the Leeward Caribbee Islands, America. Your Excellency.

To the Honourable F. N. Esq; Lieutenant-Governor of South Carolina.

To the Honourable Sir J. G. Deputy-Governor of Portsmouth.

To the Honourable G. P. Efq; Governor of Fort St. George, Maderas, in East-India.

To the Worshipful the President, and Governors of Christ's Hospital, London.

The Second Governors of Colonies appointed by the King, are stilled Lieutenant-Governors: Those appointed by Proprietors, as the East-India Company, &c. are called Deputy-Governors.

#### To Incorporate Bodies.

TO the Honourable the Court of Directors of the United Company of Merchants of England, Trading to the East-Indies.

To the Honourable the Sub-Governor, Deputy-Governor, and Directors of the South-Sea Company.

To the Honourable the Governor, Deputy-Governor, and Directors of the Bank of England,

To the Master and Wardens of the Worshipful Company of Drapers.

#### To the Gentry.

TO the Honourable Sir C. W. Bart. at B. near L. To the Honourable Sir W. S. Knight, at G. in Suffolk. To R. Y. Efg. at M. in Cheshire: Or to Mr. Y. &c.

\* The Wives of Knights and Baronets, are called Lady W. or Lady S. But the Wives of Esquires, and other Gentlewomen, only Mistress, &c.

A charle, Horfe, and Haracle, wage to the which the Charle and Paracle vere tring product to de try to

#### To Men of Trade and Professions.

TO Mr. G. F. Merchant in Austin-Fryars, London.

To Dr. R. M. in Bloomfoury-Square, London.

To Mr. D. S. Surgeon, in Covent-Gorden, London.

To Mr. X. Y. Pewterer in Friday-ftreet, London.

To Mr. 7. D. Writing-Master, at Rorberhirb, near London.

\* It will be proper to mention the Designations of the Abodes of less eminent Traders, as well as their Professions.

## To the Honourable Court of Directors of the United Company of Merchants of England, trading to the East-Indies.

#### The Humble Petition of HAMPDEN HARDY

SHEWETH,

That your Petitioner, having been bred to Writing and Merchants-Accompts, humbly prefumes himself qualify'd to serve your Honours in the East-Indies.

Your Petitioner therefore humbly prays, Your Honours will please to entertain him as a Writer, for one of your Factories in *India*, wherein he will demean himself with the utmost Diligence, and Faithfulness, and give such Security as your Honours shall require.

And your Petitioner shall ever pray, &c.

#### RECREATION IV.

A Chaise, Horse, and Harness, were together valued at 50 l. the Horse in Harness was worth 38 l. 16 s. 6 d. the Chaise and Harness were estimated at 13 l. 13 s. Their several Valuations are required?

Supposing that for a Quarter's Rent I paid in Money 7 l. 7 s. 6 d. and was allowed for a small Repair 18 s. 9 d. and for the King's Tax 8 s. 9 d. What did my Tenement go at a Year?

Answer 35 1.

Seth was born when Adam was 130 Years of Age, and 800 Years before our said Grandsire's Death: Seth, at the Age of 105 Years, had Enos: He, at 90, was Father to Cainan, who, at 70, had Mahalateel: This Man, at 65, got Jared, who, having lived 162 Years, was Father to Enoch: This Patriarch, at 65 Years of Age, had Methuselah; and by the Time he was 187 Years of Age, his Son Lamech came into the World, who, at 182 Years old, was Father to Noah; and when Noah was 600 Years old, the Flood swept away the Bulk of Mankind. In what Year of the World did this happen, and how long after the Death of Adam?

Answer 726 Years after Adam's Decease.

From the Creation to the Flood was 1656 Years; thence to the Building of Solomon's Temple 1336 Years; thence to Mahomet, who lived 622 Years after Christ 1630 Years: In what Year of the World was Christ then born?

When the Air presses with its sull Weight, in very sair Weather, it may be demonstrated, that there press upon a human Body about 33905 Pounds of that sluid Matter; and in very soul Weather, when the Air is most light, but 30624 Pounds. What Difference of Weight lies on such a Body, in the two greatest Alterations of the Weather?

Answer 3281 Pounds Avoirdupoiz.

If the mean Distances between the Earth and Sun be 81 Millions of Miles, and between the Earth and Moon 240 Thousands: How far are these two Luminaries asunder in an Eclipse of the Sun, when the Moon is lineally between the Earth and Sun; and in another of the Moon, when the Earth is in a Line between Her and Him?

Answer Of the Sun 80760000 Miles; the Moon 81240000.

Hipparchus and Archimedes of Syracuse, about 200 Years before Christ; Possidonius 50 Years before the said grand Period, and Ptolomy 140 Years after it, all advanced the Science of Astronomy. How long did each of these Persons flourish before the Year of Christ 1740?

Aufwer Possidonius 1790. Ptolomy 1600 Years.

What Difference is there between the Ages of A. born in the Year 1693, and B. that will be born 13 Years hence: The Question being put Anno 1740?

Answer 60 Years.

A Grant was made by the Crown, Anno 1239, which was forfeited 137 Years before the Revolution in 1688: How long did the same sublist?

Answer 312 Years.

Moses was born Anno Mundi, 2433; Homer 832 Years after him; Julius Cæsar lived 40 Years before our Saviour, and Alexander 312 Years before Cæsar: Now as Christ was incarnate 4000 Years after the Creation, the Sum of the Intervals between Homer and the other three great Personages, is required?

Answer 1813 Years.

The Semi-diameter of the Earth's Orbit, or annual Path round the Sun, in the Centre of the System, is about 81,000,000 of Miles; that of Venus, 59,000,000; when they are both on the same Side the Sun, they are in Perigeo; when on different Sides, in Apogeo: What is the Difference of their Distances in both those Circumstances?

Answer 118 Mill. of Miles.

A. was

A. was born when B. was 18 Years of Age: How old shall A. be when B. is 41: And what will be the Age of B. when A. is 72?

Answer A. 23. B. 90.

## Various Forms of Acquittances, when an Apprentice or Servant receives Money for the Use of his Master, or Employer, &c.

R Eceiv'd the 13th of May, 1740. of Mr. Adam Brown, nine Pounds, twelve Shillings, for my Master Daniel Cole, on Accompt,

91. 12 5.

Timothy Telmony .

Receiv'd the 24th of June, 1740. of Clement Dandridge, forty-five Pounds, eight Shillings, Six-pence, in full for my Master Edward Ford,

45 1. 8 s. 6 d.

# George Harmlefs.

Receiv'd the of Jossian and Partners,

of Mr. Philip Quiney and Company, one hundred Pounds for Mr. Jonathan

100 %.

P Richard Smithers.

Receiv'd the of 1740. of the Honourable East-India Company, by the Hands of Richard Blount, Esq; two thousand Pounds, ten Shillings, for Mr. Durant and Company,

2000 /. 10 1.

By Titus Valuable.

Receiv'd the of the Governor and Company of the Bank of England, seven thou-fand forty-one Pounds, eleven Shillings, for Mr. William Zeuxy and Company,

7041 1. 11 5.

W Young Zantby.

<sup>\*</sup> Date each Transaction in Business, according to the precise Time when it happen'd.

Receiv'd of the Worshipful Company of Mercers, by the Hands of Mr. George Clerk, ninety-two Pounds, for my Father Edward Yates.

921.

P James Yates.

Receiv'd of the Right Honourable Sir John Eyles, Baronet, and Lord-Mayor of London, thirty Pounds, for the Use of the Artillery Company, London.

30 %.

Fobn Blackwell, Clerk.

Receiv'd Nov. 17, 1740. of Mr. Edward Froward, ten Pounds for a Quarter's Rent, due at Michaelmas last, for my Master Geo. Trustnone.

TO l.

Clem. Dealwell.

Receiv'd the of of Mr. Lawrence Shifter, twenty-nine Pounds fix Shillings, in Part of a Bill of ninety Pounds, due the third Instant to Mr. Simon Dealwell.

29 1. 6 s.

Phineas Quiet.

Receiv'd of Mr. Andrew Allpaid, by Order, and on Account of Mr. Humphry Hoardmoney, one hundred Pounds for Mr. John Graham, and Company, this 14th of March 1740.

100 %

Thomas Trufty.

Receiv'd the of of Mr. Benj. Banker, by Order of Mr. Nich. Factor, the Sum of one hundred Pounds fix Shillings Eight-pence, on Account of Mr. Thomas Trustall of Colchester. I say received for my Master Edm. Goodman and Partner,

1001. 6 s. 8 d.

By Jonas Diligent.

of two thousand five hundred Pounds, Both Stock,

Receiv'd of Capt. Thomas Savery, and Proprietors, in the Engine for Raising Water by Fire, four hundred forty eight Pounds, for three Tons of Copper, at 16 d. a Pound, for Mr. Thomas Bosville, and Company, this

Received this 22d of October, 1740. of P. D. Efq; the Sum of ninety-four Pounds in Cash, and an Affignment on Mess. R. S. and S. T. for one hundred Pounds more, which, when discharged, will be in full for Mess. T. B. and S. N.

# Cafn 94 l.
# Affign. 100 l.
In all — 104 l.

P Jonas Competent.

Various Forms of Acquittances, upon Receipt of Money, by Masters and Men of Business themselves.

R Eccived the 29th of July 1740. of Mess. Samuel and Simon Surepay, five hundred and forty Pounds, on Accompt,

540 1.

William Percival.

Received the of of the Right Honourable Arthur Onflow, Efq; the Sum of two hundred and fifty Pounds, in full of all Demands, for Self and Company,

Jofiah Milner.

Received the of my growing Sallary and Subfiftance,

of Mr. Clerk Powel, the Sum of ten Pounds, ten Shillings, in Part of

10%. 105.

Hamilton Horfeman.

Received the of of Mr. Charles Torriano, twenty five Pounds, in full for the Difference of two thousand five hundred Pounds, Bank Stock,

See a Lound, for Mer. Thomas Die

25 %.

P Jacob Farmer.

Received the 19th of June, 1740. of Mr. James Shaw, thirty Pounds in full for fix Months Interest of twelve hundred Pounds, due at Lady-Day last,

30%.

W Gabriel Growth.

Received the of 174 by the Order, and for the Use of Mr. Henry Marr, of Mr. Stephen Stone, eight Pounds ten Shillings, and allow'd for Taxes and Repairs one Pound ten, together the Sum of ten Pounds, in full for a Quarter's Rent, due at Michaelmas last,

10 %.

P Randal Rentgather.

Received 174 of Mr. Lewis Landlove, twenty five Pounds, in full for half a Year's Rent, due at Xtmas last, out of which, deducted for Taxes five Pounds, and for Repairs two Pounds. I say receiv'd for, and by Order of Robert Richer, Esq;

25 1.

Christopher Countwell.

Receiv'd by the Hands of Mr. Peter Prentice, by Order of Chamberlain Trustee, Esq; thirteen pounds seven Shillings in Money, allow'd for Taxes thirty three Shillings, in all sisteen Pounds, being for half a Year's Rent, due at Lady-Day last from Capt. Richard Roundears,

15 %.

W Martin Moore.

Receiv'd 174 of the Executors of Charles, late Earl of Glendore, by the Hands of Mr. Isaac Cavendish, the Sum of seventy five Pounds, in full of my half Year's Annuity, due at Lady-Day last,

751.

Ann Bridgeman.

Receiv'd 174 of the Right Reverend Edward, Lord Bishop of Durham, by the Hands of Mr. Stephen Rainer, the Sum of ninety Pounds, and is in full for three Quarterly Payments of my Annuity, due at Michaelmas, Christmas, and Lady-Day last,

90%.

Charlot Crufty.

Received of Mr. A. B. the Sum of ten Pounds in Money, and a Note of his Hand, bearing equal Date with this, for fourteen Pounds more; which Note, when paid, will be in full of all Demands to this Day of

Charles Cautious.

Receiv'd 174 of Robert Ayleff, Esq; and Owners of the Prince Frederick, the Sum of seventy three Pounds ten, in full for Cordage, Tackle and Triming surnished the said Ship,

73 l. 10 s.

Samuel Cluely.

#### RECREATION V.

IN a Company S. had 31. 17 s. 2 d. more than T. who had fix Guineas less than R. who had within 16 s. 8 d. as much as W. who was known to have 100 Guineas wanting ten Marks of 13 s. 4 d. each. Pray what Money had they among them?

Answer 382 l. 1 s. 10 d.

The Building of Solomon's Temple was in the Year of the World 3000; Troy was, by Computation, built 443
Years before the Temple, and 260 before London: Now Carthage was built 113 Years before Rome, founded 744
Years before Christ, born Anno Mundi 4000; is London or Carthage the the ancienter City, and how much?

Answer London by 326 Years.

You were born 34 Years after me; how old that I be when you are 17; and how old will you be when I am 70 Years of Age?

Answer, I 51, You 53.

A. is 17, B. 7, what will their Ages severally be when the elder is double the Age of the Younger?

Answer, A. 20. B. 10.

Five notable Discoveries were made in 215 Years Time, viz. 1. The Invention of the Compass. 2. Gun-Powder. 3. Printing. 4. The Discovery of America. 5. Truth, in the Reformation. The last was brought about Anno 1517: The Third 77 Years before: The second 42 Years after the first, and the fourth 148 Years after the second. The Question is, in what Year of Christ did each of these happen to be found?

Answ. Compass, Anno 1302: Fire-Arms, 1344. Printing, 1440. America, 1492. Three and thirty Years before the Restoration in 1660, the Crown granted Demesses, to certain Uses, for 210 Years then to come. The Proprietor in 1715, procur'd a reversionary Grant for 99 Years, to commence after the Expiration of the first: In what Year of Christ will the second Term end?

Answer, Anna 1936.

A publick Edifice was finished toward the Close of the tenth of King John, who began his Reign 134 Years after the Conquest, in 1066; and it stood till within 70 Years of the Peace of Utrecht, in 1713: Of what Duration was it?

Answer 434 Years.

The Powder-Plot was discovered 88 Years after the Reformation, in 1517: The Murder of King Charles the First was committed 43 Years after that Discovery: The Accession of the Brunswick Family to the Crown, was in 1714; just 54 Years after the Return of King Charles the Second, who had lived in Exile ever since the Death of his Father Charles the First: How long was that?

Answer 12 Years.

A. is 13 Years younger than B. and 17 Years older than C. who in the Year 1711, was known to be 24 Years of Age: How old was each of these Persons in 1733?

Answer A. 63. B. 76. C. 46.

Arphaxad was born to Shem two Years after the Deluge, and 500 before his Father's Death; but at 35 Years of Age he had Selah, who at 30 was Father to Eber, who, at 34, had Peleg, and he lived 430 Years after that: The Question is, whether Shem or Eber died the first; and at ninescore and sourteen Years after the Death of the longer Liver, what Interval might be wanting to compleat the Term of 1000 Years after the Flood?

Answer, Eber was the Survivor by 29 Years. Interval 275 Years.

B. was born 14 Years after C. who came into the World 19 Years before A. who was 23 Years of Age eight Years ago: What then is the Age of D. who is within 22 Years of being as old as those three together?

Answer 95 Years.

B. was 14 Years old when A. was 25: How old shall A. be when B. comes to be 25?

Answer 36.

K. is 19 Years older than L. who was 27 Years of Age in the South Sea Year, 1720: How old is M. in 1740, who, in the Year 1738, was within 24 Years of being as old as both of them together?

Answer 87.

#### PROMISSORY NOTES by Banker's Apprentices and Servants.

London, Jan. 27. 1740

Promise to pay the Honourable Charles Villiers, Esq; or Bearer, on Demand, fifty Pounds,

For Sir Richard Daventry and Pareners,

#### PROMISSORY NOTES.

I promise to pay to the Honourable Directors of the English Company, Trading to East-India, or Bearer, on Demand, four hundred Pounds,

For my Father James Smith,

400 %

Thomas Smith.

I promife to pay the Royal African Company, or Bearer, on Demand, three thousand six hundred and forty sour Pounds, thirteen and Six-pence,

For my Master Jennings and Wilbraham.

3644 l. 13 s. 6 d.

Adam Tellmony.

#### MASTER'S PROMISSORY NOTES.

T Promise to pay Mr. Edward Jones, or Bearer, on Demand, seven hundred Pounds, Apr. 14. 1740.

700 %.

Simon Sogood.

I promise to pay to the Governor and Company of the Bank of England, nine thousand Pounds, For Self and Partners,

9000 1.

Francis Fairfax.

I promise to pay Jos. Penington, Esq; Cashier of his Majesty's Revenue of Excise, or Order, forty Days after Date, four hundred and thirty Pounds, Value receiv'd,

Conrade Collector,

· I promise to pay Paul Portsoken, Esq; or Order, on Demand, three hundred ninety sour Pounds two and Sixpence, Value receiv'd, this

394 l. 2 s. 6 d.

Timothy Theobalds.

I promise to pay Sir Joseph Jebb, or Order, the Sum of thirty Pounds in Manner following; ten Pounds Part thereof, two Months after Date, ten Pounds more the 17th of March next, and the remaining ten Pounds, the 24th of June next following, the Value receiv'd: Witness my Hand, at London the

174

30 1.

Daniel Douglas.

Bromley, May 10. 174

100 %

Borrowed and received of Mr. Aaron Goodfriend, the Sum of one hundred Pounds Sterling, which I promise to pay the said Aaron Goodfriend, or Order, upon Demand: Witness my Hand,

Witness & John Brown.

Nic. Needbam.

I promise to pay to Capt. Alexis Edgecomb, or Order, on Demand, eighteen Pounds, eight and nine-pence, surnish'd by my Order, to Lieutenant Charles Cornwall, as appears by his Receipts, deliver'd this 12th of December, 1740. to

18 1. 8 s. 9 d.

Hugh Harrold.

I promise to surnish Mr. Gregory Fitz-Harding, with Bills of Exo. to the Value of five thousand Pounds Sterl. at current Exchange, payable to himself, or Order, in Messina, the next ensuing Fair: Value of Sir John Trevor receiv'd,

5000 %.

# Edward Effington.

I promise to pay to George Goosequill, Esq; or Order, the Sum of fifty Pounds, on Demand, after Receipt of a Bill of Exo. drawn the 20th current by Humphry Herringbone, on Henry Dashet of Southampton, Malster, for the like Sum payable to William Pierce, Esq; or Order, which said Gregory Goosequill has indorsed to me, this 28th of January, 174

I promise to return her Grace, the Duchess Dowager of Tredegar, or Order, on Demand, one Casket of Jewels, seal'd, one hundred Ounces of Gold-Plate, three hundred and fifty of Ditto Silver, seventy Carracts of Oriental Pearl, and a thousand Pound Bank-Note, receiv'd of her said Grace,

For Self and Company, Nov. 19, 174

P' Trojan Trusty.

Receiv'd of W. L. Esq; nine Deeds, all relating to his Estate in the Parish of Dovebridge, near Utoxeter; which I promise to return the said W. L. or Order, undamag'd, on Demand: Witness my Hand this Day of Anno 174

Roger Norton.

Promissory Notes, for a valuable Consideration, should always mention the Value receiv'd, if the Thing it self be

not specified; this gives them Validity in a Court of Judicature.

A Promiffory Note, mentioning Order, is indorfible from one Person to another, which is done by the present Possessor's writing his Name on the Back of it, and delivering it up to the Party to whom he intends to assign over his Property therein.

'Tis unnecessary to have a Promissory Note payable to Bearer indersed, if you are fatisfy'd the Note is good.

The delivering up a Promissory Note to the Person who sign'd it, is a sufficient Voucher of its being paid; nor is there any need of writing a Receipt thereon.

Promissory Notes, and Book-Debts, if not legally demanded in the Space of fix Years, cannot be recovered by

Law.

If you keep a Promissory Note on Demand, in your own Hands above three Days, and the Person 'tis upon should fail, the Loss will be your own; but if he fail within the three Days, it will light, in Equity, on the Person that paid it you.

#### RECREATION VI.

ENGLAND was conquer'd by William I. Oct. 4. 1066; his Son William II. came to the Crown, Sept. 9. 1087, and left it, Aug. 2. 1100; William III. received it, Feb. 3. 1689, and died March 8. 1701: How many Days did each of these Princes govern, respect being had to the intercalary Days (added to February, every Leap-Year) as they rose in the Course of Time?

Note, Every fourth Year is Leap-Year or Bissextile: To find which are such, divide the Year of our Lord by 4, and when nothing remains, those are the Leap-Years; and, to such, you add one Day more than 365.

A. born 16t Years ago, died when B. was 47 Years of Age, who it feems came into the World 180 Years fince, and out-lived A. 43 Years: The Sum of the Ages of these two Persons is required?

Answ. 69 Years.

If Sumpjon was born 17 Years after Timothy, and Timothy 26 Years before Jucob, who 28 Years hence will be

just 50: In what Year of Christ were they severally born; the Question being proposed Anno 1740?

Answer Jacob 1718. Sampson 1709. Timothy 1692.

Richard the First, succeeded his Father Henry II. July 7. 1189; John, his Brother, succeeded him, April 6.

1199. Richard the Second succeeded Edward the Third on the 21st of June 1377; and was deposed by Henry IV.

on the 20th of September 1200. The third Richard saused his Nephew Edward V. and his Brother, to be mur-

on the 30th of September 1399. The third Richard caused his Nephew Edward V. and his Brother, to be murder'd on the 18th of June 1483; and was flain himself on the 22d of August 1485. How many Days was the Realm govern'd by the three Richards, respect being still had to the intercalary Days, as they happened?

A. born Anno 1108, lived 48 Years before B. who was 113 Years fenior to C. and X. was 114 Years before Y. who was 74 Years after Z. born Anno 1527: In what Years of Christ were these Men severally born?

Answer B. 1156. C. 1269. X. 1487. Y. 1601.

A. born 445 Years before the Year 1733, died Anno 1362; B. born 37 Years ago, will die 18 Years hence;
C. born 256 Years ago, died 197 Years fince; D. born Anno 1578, lived till within 75 Years of said 1733: The

length of these People's Lives are severally required?

Answer A. 74. B. 55. C. 59. D. 80 Years.

A. born Anno Christi 318, lived 207 Years before B. who liv'd 104 Years after C. who was Successor to D. 84 Years; E. was also 112 Years after D. but Predecessor to F. by 47 Years: In what Year of Christ did each of these Gentlemen flourish?

Answer B. 525. C. 421. D. 337. E. 449. F. 496. The first Queen Mary came to the Crown, July 8. 1553; she reigned 5 Years, 4 Months, and 9 Days; her Sister Elizabeth succeeded, and James I. came to her Throne the 14th of Mar. 1602; he left it to his Som Charles I. on the 27th of Mar. 1625, who was forc'd from it, Jan. 30. 1648. The Question is, how many Days did these Princes reign, and at the Death of Charles I. how long had England been under an uninterrupted Succession of Protestant Princes (Mary I. being the last profess'd Papist that enjoy'd the Crown) not neglecting the intercalary Days in February, as before?

Answer Eliz. 16188. Jam. I. 8404. Char. I. 8709 Days. If I am 42 Years older than you now, what will be the Difference of our Ages 14 Years after my Decease, in

case you shall then survive?

Answer 28 Years.

A Dealer bought two Lots of Snuff, that together weigh'd Cwt. 9. 100 lb. for 97 l. 17 s. 6 d. Their Difference in point of Weight was Cwt. 1. 2 qr. 16 lb. and of Price 8 l. 13 s. 3 d. Their respective Weights and Values are requir'd?

Answer & Lot 1. Cwt. 5 . 86 lb. Coft 53 l. 5 s. 4 d. 1. Lot 2. Cwt. 4 . 14 lb. Coft 44 l. 12 s. 1 d. 1.

Double my Money for me, faid A. to B. and I'll give thee Six-pence out of the Stock, which done, with the Remainder he apply'd to C. with the same Success, and he gave him also Six-pence for his good Nature: He repeated this very Proposition to D. and then Sixpence was all he had to give him: Pray what had he himself at first?

Answ. 5 d. \frac{1}{4}.

#### BILLS OF PARCELS.

The Honourable the Lady Afbley,	Bought of Lemuel Linen-Draper and Partner.	
174 14Mar. 16 Ells of Dowlas	s. d.	,
22 ½ Ells of Holland——	at 1.4 \$\psi \text{Ell}	
I Ps. of Cambrick		3 . 4 . 6
A Ps. of Muslin  85 - Ells of Diaper		2 . 17 . 3
19 ½ Ells of Damask	at 1.10———————————————————————————————————	4.4-
const. In white York of Cont. purvents of	The state of the substitution of the state o	1. 22 . 17 . 8
Madam Strawberry,	O an Avel	-
Wadani Strawberry,	Bought of Manywords Milliner.	
174 13 Apr. 15 ½ Yards of flower'd Ribban	s. d.	
3 Pair of Roman Gloves—	at 2.3	*
6 Dozen of Irish Lamb, Ditto-		AND THE PROPERTY OF
7 Sarcenet-Hoods, white ————————————————————————————————————	at 4.6	And You know that
A Ps. of Meclin Lace, 16 Yard	ds at 13.10 \$\phi\$ Yard	A LOUIS WALL OF THE PARTY OF TH

The

The Rigi	ht Honourable the Countess of Night and Day,	Ros	ught of Mary Tombs	inold.	Mr. Grate Co
•••	the second of the second secon	DO	l. s. d.		
3 Feb.	of China Plates			1000	
3 rev.	36 China Plates 18 Dishes, Ditto	- at	0 . 3 . 8 each—	pirech of lake	mile and war
	2 1 Pair of Jarra and a Pair of Poskers allowed	- at	0.10.0	Acad Acad Strong	
	2 1 Pair of Jarrs, and a Pair of Beakers allow'd-			road to front well	- 13 . 10 . 6
	A Tea-Table Set compleat		The state of the state of the state of	no see a see a see	- 3 . 18 . 4
	Indian Sprig'd Muslin, 1 Ps. qt. 14 3 Yards——Fine Chints, 10 Ps.	— at	0.9.0	uttobi do laser	A A SECTION ASSESSMENT
	rine Chints, 10 Ps.	— at	3 · 3 · 0 4 Ps.	- Interest has	fi sa
					1. 71 . 14 . 21
1. F	D' 1.4				
Mrs. Fre	ances Pindust,		1C TT C 4.	The second second	Name Batana
	Bough	it of	Isaac Hosier, 10 Apr	. 174	manual tanas
Series a	D: CTIT . TIT 0 1		s. d.	SERVICE CONTRACTOR	
2 1 3 3 7	15 Pair of Women's Worsted, mixt	— at	5 . 7 # Pair-	min by famous 1	<b>—</b> 1.
	23 Pair of Men's Silk	at	17 . 4		
	22 Pair of Men's Yarn		3.2	46	
	18 Pair of Norwich Hose			No. of the Parkette Av	200
	38 Pair of Thread	at	3 · 4		300 I
	13 Pair of Women's Gloves, Silk-	— at	4 . 8	CHARLES CHARLES	
The Fig.			- and Campon	ague so pubb.	115
- 14 - 57					1. 41 . 4 . 11
Mrs. Sara	ab Johnson,				
		f Theo	philus Fruiterer.	20-10-10-1-12-20-2	arverteHolfT
174			s. d.		
3 Apr.	7 Dozen of Malaga Limons	- at	2 . 3 1 Dozen.	52.50	- 1.
	7 Dozen of Malaga Limons ————————————————————————————————————	- at	7 . 2	in to british	TI AMERICA
	g Ropes of Spanish Onions		I . 6	real to both	212 Con
	1 Bushel of Ditto Chestnuts-		ALTONOO!	is to brond !	-0.7.10
	43 Dozen of best China and Seville Oranges -	at	T 2	the to Herr	Control of the control
	12 Pomegranates		0 . 41	Gall, of Lin.	The second second
	TA I OHIO STRIBLES	- 46	42	The Control of the Control	The second secon

Mr. Claude Cockfon,	of the second
Bought of Robert Fishmonger and Partner.	
174 27 Mar. 3 Hundred of Haberdine at 7 . 10 . 6 cach.  11 Hundred of Ling at 8 . 12 . 6  41 Hundred of Stockfish at 4 . 10 . 6  4 Kegs of Sturgeon at 0 . 16 . 101	-
4 Kegs of Sturgeon at 0 . 16 . 10\frac{1}{2}  6 \frac{1}{2} Barrel of Herrings at 3 . 10 . 2  95 Dried Salmon at 0 . 1 . 2	
	1. 87 . 11 . 11
James Bateman, Esq; Bought of Clement Coffeeseller, Feb. 10. 174	Salarent eth
s. d.	
27 Pound of Smyrna Coffee at 5 . 8 Pound.	l.
33 Pound of Mocha, Ditto at 5 . 4	
104 Pound of best Bohea at 14 . 6	4-4-
102 Pound of best Bohea at 14 . 6 at 18 . 8 at 18 . 8 at 1 . 0 \frac{1}{2}	
$\mathcal{L}_{\mathcal{L}}$	
	1. 70.13.4
The Honourable Mrs. Vaughan,	
Bought of Simon Salter, and Partner.	
5 June. 13 Pound of Anchovies at 1 . 4 1 Pound.	472
30 Pound of Capers at 0. 102	- 4
12.3 Pound of Salt-petreat I . 2.5	
2 Gall. of pickl'd Mushrooms at 3 . 7 P Quaft at 12 . 0 P Gallon	1
4 Gall. of Lucca Oil at 12 . 0 Gallon	94
A Westphalia Ham, wt. 20 lb at 0.11 1 Pound.	

#### Mr. Edmund Shakespear,

Bought of James Pewterer, and Jonathan Brasier.

08. 20. Hard-metal Plates, 3 doz. wt. 50 lb. \_\_\_\_\_ at I . 4 P Pound. \_\_\_\_\_ 1. 8 Dishes Ditto, a Monteth, and Cullander, wt. 40 lb. at 1 . 6 A Copper, with a discharging Cock, wt. 66 1 lb. - at I . 41 Iron-Work to Ditto, and a Crane, wt. 97 lb. - at 0. 23 A Stove Grate, with Shovel, Tongs, Poker and Fender

A large Brass Pot and Saucepan, wt. 38 lb. — at 1.7

1. 16 . 19 . 0

#### Mr. John Doyley,

Bought of Ferdinand Furrier, May 5. 174 Coney Skins, 1300 \_\_\_\_\_\_\_ at 13 . 6 \$\top \text{Hund.} \_\_\_\_\_\_ \lambda.

Beaver, 180 \( \beta \).

21,0.0 Fitch-Skins, 90

at 0.3½ \$\psi \text{Skin}\$

Otter-Skins, 50

at 3.0

Hare-Skins, 140

at 9.6 \$\psi \text{Hund.}\$

L 108.5.01

#### Mr. Edmund Cordwainer,

10 8 8 1

Bought of Adam Leatherfeller.

Mrs of any Something Box Box d. Imend for Nev. 17. Large oil'd Lamb-Skins, 215 \_\_\_\_\_\_\_ at 1 . 3 \frac{1}{2} \frac{1}{2} \text{Skin} \text{ Skin} \_\_\_\_\_\_ \ldots \text{L}.

Goat-Skins, 130 \_\_\_\_\_\_\_ at 0 . 11 \frac{1}{4} \text{ Allom'd Sheep-Skins, 137} \_\_\_\_\_\_ at 1 . 3 Calves-Skins, 19 at 4 . 3 — at 12 . 9 — at 12 . 9 — Ruffia Hides, 82 \_\_\_\_\_ at 12 . 9

# BILLS of PARCELS.

Capt.	Fobn .	Elford,	
17		and the same of th	

Capt. 7	obn Elford,	Province and processon	Mary Arreign II	man a parenter or front
		Bought of Thomas Cheefen	nonger.	
174	Pound.	Cwt. gr. lb.	1. s. d.	in 1 17 1
Dec. 21.	Old Chefbire Cheefes, 12 -	5 . 2 . 24 -	at 1 . 17 . 4 \$\to Hund	1.
	Glocestersbire Cheeses, 45 -	4 . 2 . 10 -	at I . 12 . 6	A.
2 0	Firkins of Butter, 12 -		at I . 10 . 0 each	
0 . 01	Stilton Cheefes, 93	2 . 3 . 25 -	at 1.10.0 each. ————————————————————————————————————	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU
	Flitches of Bacon, 7	wt. 49 Stone.	at 0. 3. 4 each	ANNEL A
	Suffolk Butter, 12 Weys -		— at 8.3.8—	1
				1. 150 . 18 . 9
M- 3-	athan Maurist	. 34		were room Layley,
MII. Jon	athan Marriot,		and Company	
***	The hould be	Bought of Mr. Geo. Groce. Cwt. qr. lb.	and Company.	
Mer 12	Sugar a While - Houng w	Cwt. qr. 10.	at a to to do Hund	CONTROL OF
0.0.	Paifine VI Parrel	19.2.17	at 1.13.10 # Hund at 1.14.5	WALL THE STATE OF
	Tobacco v Hhal	12 . 1 . 19	at 4.19. 4	Stock A
	Pice r Barrel	4 12	at 4 . 19 . 4	G-851/5
	Penner y Rog	1 15	at 2.16. 4————————————————————————————————————	a mi O
-	Brimftone .	1 . 3 . 19	at 1 . 12 . 4	Martin I.
10 18	Bees-Way A Cakes	2 . 1 . 19	at 1.19. 1	
And the second second	Docs- Wax, 4 Cares	2 . 2 . 12 —	at 1.10. 4	The second second
				1. 91 . 9 . 91
Mrs. Fa	ne Somerset,	Henry Leather Seller	to triumilian	NO BRANCO AND
		ought of Edmund Brisk, at	nd Ofwald Obliging.	
174	10 Skin	A COLUMN TO THE REAL PROPERTY OF THE PARTY O	s. d.	A TOTAL AND A STATE OF THE ADDRESS O
9 Nov.	12 3 Yards of rich brocaded	Sattina	t 18 . 6 \$ Yard.	<u> </u>
	6 Yards of Mohair 25 ½ Yards of Paduafey	2	it 4.2	G CALCACA
	25 + Yards of Paduasoy -		t 11 . 8 —	THORY.
	15 1 Yards of flower'd Dan	nask — a	t 8.8 —	NAME OF THE OWNER OWNER OF THE OWNER
	34 Tards of Poplin -	a	t 3.0	ALTER ST. CA
76	12 1 Yards of Italian Mant	ua ———— a	t 7 . 6	Ann (180 / 2)
2 . 0 . 20	an Varde of double Taffat	The state of the s		/

When the Money is paid down, either of the Partners may write,

Receiv'd then prefently of Madam Somerset, the Sum of Forty-eight Pounds, eight Shillings and nine Pence, in full of all Demands, for Self and Partner,

Ofwald Obliging.

Som was born 28

Mr. Charles Thorold,

Bought of Sir William Ashurst and Company, Feb. 8. 1741-2.

the state of the s	The Letter of this Said Conor was a few man and a said and
10 Yards of Yorksbire Cloth-	at 6 . 6 \$ Yard
7 Yards of fine Spanish Black	
7 Tards of fine Spanish Black	at 16.3
63 Yards of fine grey Cloth-	at 15.9
161 Yards of Frieze	at 3.6
4 Yards of fecond Drab	at 15 . 6
57 Yards of superfine Spanish Cloth-	21 18 6 1 1 ody - out son to
	IL among and the Year wherein the fill me our
31 Yards of Livery Scarlet Cloth-	at 13.0

1.46 . 0 . 7

Receiv'd at the same time, the full Contents, for Sir William Asburst and Company,

Michael Medcalf.

### RECREATION VII.

BY God's Bleffing upon a Merchant's Industry, in ten Years Time he found himself possessed of 13000 l. It appear'd from his Books that the last three Years he had clear'd 873 l. a Year, the three preceeding but 586 l. a Year; and before that but 364 l. a Year. The Question is, what was the State of his Fortune at every Year's End that he continued in Trade, and consequently what had he to begin with?

A. born Anno 1441, lived till B. was 7 Years of Age, which was 23 Years before the Reformation, in 1517.

B. surviv'd this remarkable Æra just 49 Years; C. born 9 Years after the Death of A.-lived but till B. was 36 Years of Age: The Sum of the Ages of these three Persons is requir'd?

Answer, Their Sum is 152 Years.

Sam was born 28 Years before Toby, who died at 12, and lived 19 Years after him. Rachel came to light when Som was 16, and died 11 Years before him. Joshua, when Rachel was 7 Years, being himself then 14. went abroad, where he continued of Years, and returning, furvived Rachel 4 Years. How old was each of these. and what is the Sum of their Ages?

Answer, Sum 146 Years.

A Grant was made Dec. 14. in the 10th of Henry I. who began his Reign Aug. 2. 1100; 'twas refum'd November 19. in the 4th of Henry III. who came to the Crown Off. 19. 1216; 'twas reviv'd the 16th of 'July, in the 12th of Henry VII. who ascended the Throne Aug. 22. 1485: But it was a second Time revoked, and finally suppress'd in the 16th of his Successor Henry VIII, on the 10th of May. Now as this Man's Father died July 21, 1500; the Question is, how many Days was this Grant in Force, and how many did it lie dormant?

Answer, 49947 Days in Force; superceded 101413 Days. A. born Anno 1438, died at 48 Years of Age; B. died Anno 1502, aged threescore and seventeen; C. in the Year 1577, was 22 Years of Age, and furviv'd that Time 54 Years: D. Anno 1616, had liv'd just half his Time, and died in 1648; E. was 13 Years old, at the Death of D. and 14 Years after that, was Father to F. who was 31. when his Son G. was born; who, at his Grandfire's Death, was 7 Year's of Age: The Years of Christ, wherein these Men were born, and the Year wherein the first five of them died, are severally requir'd?

Answer & Birth, A. 1438. B. 1425. C. 1555. D. 1584. E. 1635. F. 1662. G. 1693.

Demise, 1486. 1502. 1631. 1648. 1700.

A. born 17 Years after C. and 13 before B. died 42 Years before the present King's Inauguration in 1727, aged 47 Years; C. died Anno 1712, and B. exactly 8 Years before him; D. born 23 Years before C. died at 64; E. born 11 Years after B.'s Death, will die 12 Years after the Year 1733; and F. born just in the Midway of the Interval, between the Births of A. and D. is not to reach the Time of E's Death by 14 Years: What is the Sum of all their Ages, and which of them liv'd longest?

Answer, The Sum 398 Years. F. Senior by 22 Years. A Person said he had 20 Children, and that it happen'd there was a Year and half between each of their Ages; his eldest was born when he was 24 Years old, and the Age of his youngest is now one and twenty: What was the Father's Age? I to be tollog distant banch and ami I that I am air

Answer, 73 1 Years. Years the three preceeding but \$80 ? A Sheep-Fold was robbid three Nights successively; the first Night half the Sheep were stolen, and half a Sheep more; the fecond Night half of the Remainder were loft, and half a Sheep more; the last Night they took half what were left, and half a Sheep more, by which time they were reduced to twenty: How many were there at Anfwer, 167.

I se Sum of the Ages of chefe three Persons is requir'd?

Anjury; Their Sum is 152 Years.

a course of born o Years after the Death of A. lived but till B. wile go

# BILLS on BOOK-DEBTS.

The Right Honourable the Lord Bolfover, Dr.

To Paul Pur	Seproud, Upholder.
174 .	l. s. d.
Apr. 19. A rich Crimfon Damask Bed, laced, compleat-	75
May 5. A Set of Window-Curtains, and Vallance, Ditto	
7. A fine Carpet, Counterpane, and an Otter-down	Quilt
June 6. A Crimfon Velvet Easy Chair, and 2 Stools, Di	
13. A wrought Dimety Bed, and Furniture, complex	
Aug. 10. A Down Bed, Boister, Pillows, with a Mattress	
Chairs 10, with two-arm'd Ditto, Wallnut-tree	1ram d 34 . 12 . 6
The second secon	the second of the Bor und second
	Sum 7.
If a Servant receives the Bill,	
Received the 30th of December 174 . of the Right Hone Steward, the full Contents, for my Mafter	r P. Purseproud,
	A. Batchelor.
Personal and Paradate	10 Till
Her Grace the Dutchess of Plinlimon Dr.	
	o Crew Cabinetmaker.
174	
Octob. 3. A Chimney Glass, and a Pair of Sconces	5 18 -
A Pair of Pier Glaffes 72 Inches, in gilt Frames	in an analysis and an analysis
10. A Pair of Indian Cabinets, at 43 l. 10 s. each -	1876 101 9 212
A fine Indian four-leav'd Screen, and a Fire Screen	en die G
Nov. 18. A Book-Case, with Glass Doors, and a Corner-	Cupheard Ditte
A Thethan The Table and a Country Description	
30. A Wallnut-Tree Table, and a Set of Dreffing Bo	
Dec. 7. A Tea Table and Stand plated, wt. 103 oz. at 8 s.	
30. A Dozen and half of fine matted Chairs, at 18 s.	o a. each
Mil	1 204

Receiv'd the 31st of December, 174 of Her Grace the Duchess of Plinlimon, Fifty Pounds in Part for Mr. Crew Cabinetmaker, Fairspoken Fairspoken

Mr. James Shortmeafure, Dr.

To Walstone Winecooper.

Mar. 28. Palm Sack, 18 Gallons —	at	8.	6 ₩ Gall.——	1.
Apr. 13. Port Red, 35 Gall.	at	5.	4	The state of the s
May 26. Sherry, 17 Gall.	at at	6.	8	1
Jul. 13. White Lisbon, 32 Gall.	at at	4 .	10	
20. A Double Cheft of Florence agreed for-			Manager College College	4.0.0
Aug. 30. 101 Dozen of best Burgundy	at	50	₩ Doz	
7 Dozen of Côte-rotie	at	2	Guineas.	

The Reverend Mr. Euclid Peachy, Dr.

To John Percival and Partners.

174	The bridge of	· The Crew Ca	. 1
Mar. 27. Oa	ts ———	s Ors.——at	2 . 3 1 Bufh 1.
Apr. 9. Bea		9 Bush.——— at	4 . 10
May 16. Bra	in ———	7 Qrs.—at	1 . 10
		9 Bush.——at	
	S I	6 Bush.——— at	3 . 111
Jul. 2. Pale	Malt — 2	8 Bush.——at	3. 2
17. Hop	os — I	7 Pound at	I . 4

1. 22.7.3 Meff.

				7 (7	42
Meff. Dra	ake and Compton, Dr.	To Dishard on	d Yand Downless T	Dr.	Mirs. Am Fine
	For Dying the Goo	ds following deli	d Jacob Broughton, D	yel.	
174	build the	01 18	1. s. d.	1110 11 11 11 11	174
May 7.	Exeter Stuffs, yellow-	70 Ps.	at 0 . 14.0 d	Ps. Pelladine No.	
13.	Norwich Ditto, blue	30-	at 0 . II . 6 -	angot of the Silk -	dag. 10. Let
20.	Tamies, black	42-	at o . 12.8 -	Suite AND IN TORHE	
July 1.	Colchefter Bays, green	28	at 0. 9.0-	-Jhw i novik bae hi	Sept. 13. 13
28.	Camlets, Orange ———	21-	at 0 . 15.0-	nited Silk in grain-	WT .oc
331.2.7	AT THE STATE OF TH				1. 121 . 4 . 0
-	-				
Mr. Rowl	land Upholder, Dr.			12.4. 17	2.2.10 20.
	T	o William Wareh	ouse and Company.	. ier (lsfanner	Mr. Chales C
174	0 C TI			d.	. Art
Oct. 7.	Superfine Blankets	- 17 Pr.	at I to 311	ng Door Locks with	Fun. 10. Spri
9.	Medium Ditto	- 12	at o . 13	2	Do 10. Boli
Nov. 6.	Cheney Ditte	31 15,	at Z . 3.	mingbam Brais Locks	· Aug. 1. Bir
18.	Chency Ditto	- 10	at I . 8 .	Jaft-Iron Inck, Cro.	24. A
Dec. 9.	15 printed Callico Quilts	- 14	at o . 16 .	neld Ivails	1100 'CT '140
				non-3	
1. 34.4.8	Charles of the comment of the				1. 164 . 6 . 4
The Hone	ourable Sir Michael Newton,	Knight of the Ro	th Dr		
110110110	Surable Bli 1711 Duei 14 Dion,		homas Goldsmith.	Virginia, Dr.	Mr. Humphry
174			z. dwt. gr.	s. d.	
May 31.	A Silver Set of Casters	wt. :	25 . 10 . 10	at 7 . 9 -	<i>l.</i>
Jul. 7.	Half a Doz. Soup Plates -	Costs		at 6.6_	AND AND
10.	A Silver Teapot and Lamp-	-	19 . 16 . 15 0000	Tringiat od 104 ball	Alm 26, 1.
	A large Punchbowl		7 . 16 - Cofe	lox of Or coneke	40 . 0 . 0
	A Dozen Defert Knives, Fo A Dozen Silver Spoons			THE RESERVE AND ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY.	
2.00. 0.	The Dozen officer opoolis	We were	VI dp	-25E at 0 Jp-2.5A	May 25. 1
			The state of the s	Colla,	£ 120 . 8 . 11
34.44.2	1	I			
The State of the S	The state of the s				

# BILLS on BOOK-DEBTS.

42	BI	LLS on B	UUK-DEB	TS.	
Mrs. Ann	Finch, Dr.	Later market		of white	
		To Samuel Silkman and		A CANAL STREET, SALES	Le de L'age
174	Take Palladine Cill	D. D.	in Maiwoll 3. (x d.)	For Dying the	THE PARTY
Jul. 30. Aug. 10.	Tripoli Belladine Silk	10 AT 0 44	at 19 . 10 c	Pound.	- 1.
14.	A Fangot of raw Silk -	-0.11 0130	at 13 . 8	Absent Separa to	ord in the .
Sept. 15.	Ditto of Ardas -	8770778	ot 10		22 - E.I.
30.	Gold and Silver Twift-	17	at 6. 4	Ounce.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A Secretary of the second	Twifted Silk in grain-	122	at 3. 0-	determine the	28. 8
0.5.181	All the second	and the second of the second		,	7
					1. 331 . 2 . 7
Mr. Charl	les Cloudesty, Dr.	- (ala.) - (		Uphiddle, Dr. C	Me Reedand
174	There is the Doguest	To Joseph Iro	nmonger.		
7un. 10.	Spring Door Locks with	Hinges To	S. d.	each : 10 as a	474
D. 19.	Bolts -	42 Pounds -	at 0 0		Ott. 79 out
STREE TO	DIT MINEUGIN DIGIS LACKS		97 8	the state of the s	The state of
Sent TO	Sheffield Nails	1 . 3 . 10	at 14 . 8	Cwt.	Nov. 6. Ch
21.	A Caff-Iron Back, Cwt. Sbeffield Nails Plate-Iron	3 13 0 15	at 0 . 4	1 do 16	18. 6
164 6 4		the same of the same of		T 10.	15x 36 320
					1. 34 . 4 . 8
Mr. Humb	bry Virginia, Dr.	and sheet	many Maight of the f	fair envisor.	
May 18 Sec.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Thomas Goldfauth.	oT	per meneral and old	Ene Honouga
·	- 30 7 7 9	To Thomas Tobacconift.			Arr
174	à . ò . ·	. 25 , 10 . 15	Cont	Silver See of Cafter	May 31. A.
Mar. 26.	I Hhd. of belt bright To	harro de Ne	e1	THAT AND IN	
Apr. 15.	I Dox of Organaka	nt Nt	mmi Ib at a	4-111 00 .	A OI
19.	5 Days of old Spanilo -	at Nt.	bx4 b at o	11 12 17	Wall Sur
_ 1V1ay 25.	7 rina.—qt. Gr. 335. 1	1. 42 IS Nt. 16. 293 -	at o .	1006	Nego G.A.
1 . 0 . 021		qt. Nt.	94 10 21 1 .	51	
CONTRACTOR OF THE PARTY OF THE					

Meff. Owen and Ofwald, Dr.

#### To Tho. Teadust and Conrade Coffeepot, Druggist.

174	Cwt. lb. lb.	1. s. d. pdan Toylet
Oa. 13. Galls	wt. 11 Tr. 12. Nt. 156	- at o. o. o. o. d. de lb 1.
27. Mestica Cochineal —	- 18 Pounds	- at I . 12 . 10
Nov. 16. Scammony	- 37 Pounds -	- at o. 10. 0
19. Gum Arabick -	127	$-$ at 0. 0. $8\frac{1}{8}$
Dec. I. Sassafras	3½ Hundred	$-$ at 0. 0. $3\frac{2}{3}$
31. Opium	- 10½ Pounds -	at 0. 6. 0
Jan. 11. Tea, one Canister -	75	- at 0.13.8
24. Affa Foetida	48	- at O. I. 6
Feb. 9. Contrayerva Root -	7 1	at 0.18.6

1. 129 . 7 . -

Mar. 28.

. 1237 T

Meff. Somerfet and Draper, Dr.

#### To Blackwell Hall and Company.

174	A Jupit T M		5.	d
Sept. 3.	Serge de Nifmes -	13 Ps each 30 Yards -	at 3 .	101 4 Yard L
7.	Silk Drugget -	24 each 281	at 5.	10
		30 each 41		
19.	Silk Camblets	11 each 40	at 3.	Scalet I ries
		40		
30.	Shalloons—	ŜI -	at 50.	Ps.
		10 ——each 26½	at 2.	2 P Yard.
Dec. 10.	Sagathy —	23	at I.	4

gues. Bright will make a king it Brig-work, viz. 272 \$ 19. Leds.

1. 774 . 14 . 2

25 Roberts as & Chowered of Lines . That

The Right	Honourable R. To Benj.	ichard Earl	of Caftlemain	, Dr.				
	To Benj.	Builder, fo	or Work and	Materials	in his	House at	Henly-Park,	Surrey.
THA	Choose Beyon		Reebet, Shrows	Serade Con	J but 1	- Tonk	1	

12 Load -Mar. 27. Oaken Timber o a Ton -35 Ton -30. Fir Timber + 10 a Load. -31 # Foot-5. Oaken Plank-96 Foot -. 15 . 0 P Hund. ---16. Norway Deals -20 Thousand -3 . 10 P Thouf. ----Sixpenny Nails . 3 Hundred -5. Ten Groat Nails 0 . 14 . 10 Ditto. Jun. 28. Work for my felf 90 Days -

Double Quarter \_\_ 58 Feet \_\_\_ at o. o. 4 P Foot. \_\_

1. 181 . 8 . 11

left, Owen and t

Note, Deals and Nails are 120, or fix Score to the Hundred. 50 Feet are a Load, and 40 Feet a Ton of Timber. 100 Square Feet are the Square of Carpentry, Tyling, &c.

Sir Edward Cornwall, Dr.

120 mg

774.14.2

To Bernard Bricklayer, for Work and Materials in his House on Tower-Hill, London.

174						s.	d.			
Mar.	28.	Bricks	25	Thousand -		at 15 .	7	T	houf.	1.
	30.	Tiles —	11	Ditto	self op done	at 19	. 55	-	ESILITIT	1 11 37 52
Apr.	I.	Lime —	28	Hundred -	Mr. days	at 15	. 11	TH TH	lund	112
	12.	Sand ———	19	Load						
May	24.	Ridge-Tiles-	149	0		at 8	. 1	TH W	und	112
Jun.	28.	Work for myfelf-	90	Days -						
		Ditto for a Labourer				-	- 4	•		THE PROPERTY AND ADDRESS.
		Ditto for my Man -	90	2 16	<del>and the line</del>	at 2 .	6	-	and the second second	Asturbuch

1. 88 . 18 . 8

A Brick ought to be 9 Inches long, 4½ broad, and 2½ thick. 500 Bricks are a Load. A thousand Tiles the like.

25 Bushels are a Hundred of Lime. About 3000 Bricks will make a Rod of Brick-work, viz. 272¼ sq. Feet,

a Brick and a half thick.

The Right Honourable Charles, Lord Bruce, Dr. Dr. in the built with out babbs , rading of babbs , radi For Bricklayers Work at Savernacle, Wilts, perform'd by Philip Pilaster. Brick-work, 50 Rods, 68 Feet Statute Measure \_\_\_\_\_ at 5 10 0 PRod.\_\_\_\_ l.
Tyling plain, 15 Square, 75 Feet \_\_\_\_\_ at 2 3 0 P Square.\_\_\_\_\_ l. Meafured and Valued July 10, 174

William Sonds. William Sonds. William Sonds.

# RECREATION VIII.

THE Silk Mill at Derby contains 26586 Wheels, and 97746 Movements, which wind off or throw 73726. 1 Yards of Silk every Time the great Water-Wheel, which gives Motion to all the rest, goes about, which is three Times in a Minute. The Question is, how many Yards of Silk may be thrown by this Machine in a Day, reckoning ten Hours a Day's Work, and how many in the Compass of a Year, deducting for Sundays and great Holidays 63 Days, provided no Part of it stand still?

Answer 40077453600. A What Difference is there between twice eight and twenty, and twice twenty eight: As also between twice five and fifty, and twice fifty five?

Answer 20. Answer 50, What is the Difference, and what the Sum of fix dozen Dozen, and half a dozen Dozen? Answer Diff. 792. Sum 936.

What Number, taken from the Square of 54, will leave 19 times 46?

ow many Ranks will there be r

Lie Remainder of a Division is and

Answer 2042. Subtract 30079 out of fourscore and thirteen Million, as often as it can be found, and say what the last Remainder exceeds or falls fhort of 21180? the five, or fix by rix, there was it

Answer, Remainder 4631 more,

## RECREATION

What Number, added to the forty third Part of 4429, will make the Sum 240?

Anfwer 137.

What Number, deducted from the 26th Part of 2262, will leave the 87th Part of the same?

Answer 61.

What Number, multiply'd by 72084, will produce 5190048 exactly?

Answer 72.

What Number, divided by 419844, will quote 9494, and leave just a third Part of the Divisor remaining?

Anfwer 3986138884.

The Sum of two Numbers is 260; the less is 114: What is their Difference, Product, and larger Quote? Answer 122. 28044. 2 -7.

I would plant 2072 Elms, in 14 Rows, 25 Feet afunder : How long will this Grove be?

Answer 616 ? Fathoms.

H A Brigade of Horse, consisting of 384 Men, is to be form'd into a square Body, having 32 Men in Front: ow many Ranks will there be?

Answer 12.

The Spectators Club of fat People, though it consisted but of 15 Persons, is faid, No. 9. to weigh no less than three Tons: How much at an Equality was that & Man?

Anstver Four hundred Weight.

The Remainder of a Division is 423; the Quotient 423; the Divisor is the Sum of both and 19 more: What then was the Number to be divided?

What Number is that, from which if you deduct the 25th Part of 22525, and to the Remainder add the 16th Part of 9696, the Sum will be 1440 ?

Anfiver 1735.

A Person dying left his Widow 1780 1. and 1250 1. to each of his four Children, 30 Guineas a-piece to 15 of his poor Relations, and 150 1, to Charities; he had been 25 1 Years in Trade, and at an Average had clear'd 126 % a Year. What had he to begin with?

Anfwer 4180 1. 10 s. The Globe of the Earth, under the Line, is 360 Degrees in Circumference, each Degree by 1 Miles; and this Body being turn'd on its own Axis, in the Sydereal Day, or 23 Hours 56 Minutes: At what Rate an Hour are the Inhabitants of Bencolen, fituate in the midst of the burning Zone, carried from West to East, by this Rotation?

Answer 1045 145 Miles. A Fellow was faying, that when he told over his Basket of Chestnuts, two by two, three by three, four by four, five by five, or fix by fix, there was still an odd one; but when he told them seven by seven, they came even; How many had be? Answer 721.

# BILLS of PARCELS, used by Merchants and Wholesale Dealers.M

Mr. Samuel Robinson,

London, April 4. 174

3.5

Bought of William Stapleton, 6 Parcels of French Cloth, to pay at 6 Months, as follows, viz.

. 4. qt.	3 Ps. Dowlas	at 3 . 6 . 0
7.	4 Ps. Ditto	at 4. 10. 0
8.	3 Ps. Ditto	at 4 . 15 . 0
14.	3 Ps. Lockrams	
17.	3 Ps. Ditto	at 2 . 18 . 0
20.	4 Ps. Ditto	at 2. 7.6

William Cobb, Efq; Oct. 21. 174

Mr. Richard Sands,

Bought of James Inwyn and Partner, 8 Bags of Farnham Hops for ready Money, viz.

Nº. 1.	Cwt. qr. 1b. 01 . 0 . 01.1W \$4.°N
2.	52
3.	0 . 2 . 17 71 . 8 . 210
5.	Gr. 8
7:	3.0,20 .TT
1.79.2.1	Mr. Gall 2 af 22 l. To s. qp I un

Cwt. at 11 d Pound \_\_\_\_\_ 1. 116 . 15 . 4

Note, The Tun of friest Oils is a 36 Gall, and 7 lb. & Net make a Call of

Mr.

## Bills of Parcels used by Merchants, &c.

No BI.	Cwt. q	. 23 - Tare 3 . 7 each.	Rehinfun
83.	8.0	# illiam Staplass, 6 Parcel 12f	Bought of
85.	15 7 . 3	. 20 - alwo(1, 1)	19 F 11
	0 . 21 . 4 15	C. Ditto	.8
	at 2 . 7 . 6	P. Ditt.	12 Apr 1
/ 68 12	Nt.	at 47 . 6 \$\psi \cong \cong\cong \cong \cong \cong \cong \cong \cong \cong \cong \cong \cong\cong \cong \cong \cong \cong \cong \cong \cong \cong \cong \con	1. 107 . 13

Mr. Richard Sands,

Bought of Ann Smart and Company, Sept. 13. 174 5 Buts of Rape-Oil, viz.

Cwr. qr. b. qr. b.

No. 43. wt. 10 . 0 . 10 — Tare 2 . 13

48. 11 . 2 . 18 — 2 . 26

52. 10 . 1 . 0 — 2 . 13

57. 11 . 0 . 12 — 2 . 21

60. Cwr.

Tr.

Nt. Gall. at 23 l. 16 s. 49 Tun. — l. 79 . 2 . 1

Note, The Tun of fweet Oils is 236 Gall. and 7 lb. 1 Net make a Gall. of Oil.

Sir Andrew Gosling and Company,

Bought of the United East-India Company, &c. at four Months.

Nov. 27. 174

Pepper, 2 Lots, viz.

Nt. at 10 3 d. 4 lb. \_\_\_\_ l.

Red-wood, 2 Lots, viz.

Wormseed, 3 Bales, viz.

1. 376 . 8 . 8

# Bills of Parcels used by Merchants, &c.

Mr. Peter Paydown : Bought of	Titus Tradewell for	ready Money, Cotto	n 14 Bags, viz.	London, April	24. 174
	Cwt. qr. lb.	NTO	Cwt. qr. lb.		
	- qt. 3 . 1 . 7		2 . 3 . 16		
2. —	- 2.3.0	24	•		
3. —	- 2.3.5		3 . 0 . 27		
4. —	- 3.0.15	30	2 . 3 . 4		
	11 . 3 . 27		12.1.1		
	12.1.1		M. Comments		
	74 7 0	Total Gross.			
	24 . 1 . 0				
	0.3.13	lb.			
	23 . 1 . 15	Suttle 2619.		,	
	*3	Tret. 100.			
		1100.			
More, viz.	Cwt. gr. lb.	Net. 2519 at 14	d. 40° 1b.		
	-2.3.127	23.9 10 -4			
	-3.0. IO				
	-3 . I . 26	D			
33. —	-3.2.87	Damag'd.			
34. —	-2.2.7				E - Distriction of
35. —					
	Gr.				
	Tr. 0 . 2 . II				
		16.			
		Suttle.			
		Tret.			
			Maria Cara Cara Cara Cara Cara Cara Cara		
		Net.	at 4d. Pound.	1.	
The second secon					
					1. 177 . 2 . 2
					PFCPF

#### RECREATION IX.

There are 2 Numbers; the bigger of them is 73 times 109, and their Difference 17 times 28. I demand their Sum and Product?

I would put 60 Hogsheads of London-Beer into 30 Wine Pipes, and would know what the Cask must hold, that receives the Difference; 231 solid Inches being the Gallon of Wine, and 282 that of Beer.

The continual Multiplication of the nine Digits will give the Number of Changes that may be rung on 9 Bells (as well as of any other Combinations) how many are there?

Answ. 362880.

There are two Numbers, the less is 187, the Difference 34; give the Square of their Product, D. of their Sum and Difference, and the Sum of those Squares?

Answ. Sum of Sq. 1708088549.

There are two Numbers, whose Product is 1610, the greater is given 46: What is their Sum, Difference and Quotes; what the Sum of their Squares, and what the Cube of their Difference?

Anfw. Sum of Sq. 3341. The Cube of Diff. 1331.

There are other two Numbers, the greater 7050, which divided by the less, quotes 94: What is the Difference of their Squares; and what the Square of the Product of their Sum and Difference?

Answ. Diff. of Sq. 49696875.

There are still two Numbers, 75 is the less, to which the greater is in Proportion, as 8 to 5: What is the Sum, and the Product of their Sum and Difference; the Difference and Product of their Squares, and the Sum of the Squares of their two Quotes, the greater divided by the less, and the less again by the greater?

Answ. Sum of Sum and Diff. 240. Diff. Sq. 8775. Sum Sq. quotes 21526.

There are two Numbers more, the greater 224, bearing Proportion to the other, as 8 to 7: What is the Square of their Sum, Difference and either Quote; and what is the Result of the Square of the Sum of their Difference, added to the Product of their Sum and Difference.

Answ. Sq. of Sum 176400. Sq. Sum of Diff. and Prod. 138956944.

In order to raise a joint Stock of 10000 l. L. M. and N. together subscribe 8500 l. and O. the rest: Now M. and N. are known together to have set their Hands to 6050 l. and N. has been heard to say, that he had undertaken for 420 l. more than M. What did each Proprietor advance?

Answ. L. 2450 l. M. 2815 l. N. 3235 l. O. 1500 l.

A. B. and C. play in concert at Hazard; and at making up Accompt, it appears that A. and B. together brought off 13 l. 10 s. B. and C. together, 12 l. 12 s. and A. and C. together, won 11 l. 16 s. 6 d. What did they severally get?

Answer A. 61. 7 s. 3d. B. 71. 2 s. 9d. C. 51. 9 s. 3d.

Some others advance in Trade as follows, viz. W. X. and Y. raised 350 l. 10 s. W. X. and Z. 344 l. 10 s. X. Y. and Z. made up together 400 l. and W. Y. and Z. contribute 378 l. 4 s. In the conclusion, they parted with their joint Property for 450 Guineas: What did they gain or lose by their Adventure.

Answer They lost 18 1. 11 s. 4 d.

By selling 240 Oranges at five for 2 d. half of which cost me two a Peny, and the other half three a Peny, I evidently lose a Groat: Pray how comes that about?

Answer There were twenty peny-worth more of the last Sort bought, than of the first, which at the selling Price mention'd, will setch but 16 d. whereas they cost me 20 d.

In a Series of proportional Numbers the first is 5, the third 8; the Product of the second and third is 78,4: What is the Difference of the second and fourth?

What Quantity of Water will you add to a Pipe of Mountain Wine, Value 331. to reduce the first Cost to 45. 6d. the Gallon?

If the Cubick Inch of Oil Olive be ,52835 decimal Parts of an Ounce Avourdupoiz; what Quantity of Oil, weighing 7 ½ Pounds & Gallon, will be contain'd in a Cask, allow'd to hold 13 ½ Gallons of Water, each 282

folid Inches?

With 13 Gallons of Canary, at 6 s. 8 d. a Gallon, I mingled 20 Gallons of White-Wine at 5 s. a Gallon; and to these added 10 Gallons of Cyder at 3 s. a Gallon, at what Rate must I sell a Quart of this Mixture so as to clear 10 per Cent?

Answer, 16<sup>27</sup>/<sub>27</sub> d.

What Difference will there be to the Proprietors of an Aqueduct between doubling an Expence and halving a Profit?

Answer 4 to 1.

If 100 l. in 12 Years, be allow'd to gain 39 l. 19 s. 8 d. in what Time will any other Sum of Money double itself, by the same Rate of Interest?

Answer, Something more than 30 Years.

What Difference is there between the Interest of 500 l. at 5 \$\psi\$ Cent. for twelve Years, and the Discompt of the same Sum, at the same Rate, and for the same Time.

M. Applie .

Answer 112 l. 10 s. Advantage to the Interest.

### Of BILLS of EXCHANGE.

THE Bill of Exchange, in Use among Persons of Correspondence and Dealing, is a short Order for Money, to be received in one Place or Country, for the Value paid in another; to which Men of Credit, pay a very strict Honour and Regard. In it are specified: 1. The Place of the Drawer's Residence. 2. The Time of Payment. 3. To Whom. 4. The Sum. 5. Usually at what Rate of Exchange. 6. Of whom the Value was received, or to whose Accompt the Draught is to be placed. 7. The Drawer's Name. 8. By Whom, and Where to be paid.

In Bills of Exchange there are commonly four Persons principally concerned: I. The Remitter, who pays the Value to, 2. The Drawer, who receives it in one Place, and surnishes him with a Bill upon, 3. The Acceptant, who is expected to pay it in due Time, to, 4. The Possessor or Presenter, who is to receive the Contents in another Place; not but, sometimes there are only three Persons concerned in a Remittance, and sometimes, though but

feldom, two.

All Bills of Exchange, upon their coming to the Presenter's Hands, from the Remitter, are immediately to be tender'd to the Person on whom they are drawn, for Acceptance, which, by legal Appointment, ought to be made

in Writing, under the Bill.

If a Bill be payable at Usance, or after Date, the Acceptant's subscribing his Name, or making any other Mark on the same, is sufficient and valid Acceptance; but if it be payable after Sight, the Day on which it's tender'd for Acceptation, must be also mentioned upon it; because, upon that depends the Time of Payment; by which Acceptance, he becomes absolutely and irrevokably Debtor to the Presenter, for the Contents; or the Course of Exchange would, otherwise, be subject to great Hazards and Uncertainties.

But if the Party, to whom a Bill is directed, refuses to accept it, after twenty four Hours Deliberation, if it be a Foreign Bill, or upon Presentment, if an Inland Bill, Protest must be made for Non-Acceptance at the Place of his Abode, by a Notary-Publick, who is to be Witness of that Refusal; which Protest should, for the Security of the Presenter, be returned the first Post, to the Remitter, that he may furnish a new Bill, or take his proper Measures

with the Parties concerned.

The Drawer of a Bill should always, the same Post, take care to give his Correspondent Notice, by Letter, that he has drawn upon him for so much, payable as in the Bill, to prevent its being Protested, and sent him back Non-Accepted, for want of due Advice; for in that Case, his Correspondent may refuse to accept, till Advice arrives, if the Bill mentions Advice to be expected.

To prevent Interruption of Business by Miscarriage of Letters, or other Accident, Merchants always draw two, and often three Outland Bills, all of the same Tenor and Date, excepting in the second against the first, and if there be three drawn, against the third also, and in the third against the first and second, to prevent the Accepter's

paying more than one of them by mistake; which Bills, the Remitter takes care to fend his Correspondent, to whom

they are made payable, by different Posts, one of which being answer'd, the rest are of no Force.

If an accepted Bill be not paid upon Demand, the very Day it falls due, it must be Noted, that is, put into the Hands of a Notary-Publick, by the Presenter, in order to have a Protest drawn up, under a Copy of the Bill for Non-Payment; which Protest, within sourteen Days at farthest, must be returned (but not the Bill itself, unless for special Reasons) to the Remitter, who paid the Value, and who is to give Satisfaction for his Concern therein, to the Presenter, and who will procure Satisfaction of the Drawer; not only with respect to the Principal Sum, and the Interest thereof, from the Day of Protest, but also may recover the Rechange of the said Sum, with Charges of Protest, and whatever Damages shall be incurred, by the Desault of his Correspondent, the Acceptant; though Rechange is not always insisted on.

The Neglect of Protest in due Time, leaves the Presenter, or Possessor of a Bill no Security, but that of the Acceptant; whereas he has otherwise, the Drawer, and every one of the Indorsers, (if any) besides the Acceptant to

depend on, for the Principal and Damages; and if but one of them prove sufficient, he will be no Loser.

No Bill of Exchange can be protested, unless the Value be mentioned therein to be received, and the Person named of whom; nor is it usual among Dealers, to note an Inland Bill under 20 l. Value, such Bills are commonly returned without Charges; not but that it may, after Acceptance, be lawfully done, if the Bill be above 5 l. Value.

If you discompt, or pay a Debt with an Inland Bill, payable to your Self or Order, you write your Name on the Backlide, and deliver it into the Possessian of the Person you intend to make it over to, which is called Indorsing, whereby you assign all your Property therein to him; and in case of the Acceptant's Failure before it's paid, You are, by Virtue thereof, as responsible to such your Assign for the Contents and Damages, upon Protess made, as the Remitter is to you, and the Drawer to him. In like manner, let a Bill be indorsed by several Persons, the Possessian or Person to whom it was last assign'd, in case of Non-Payment, causes Protest to be made, which being return'd to the last Indorser, he is obliged to satisfy the last Possessor, as to the Contents and Charges, and returns it, in the same Manner, to the second; he to the third, &c. till at last, it recurs upon the Drawer, who is oblig'd to answer all Damages, as before. In the same Manner ought Promissory Notes to be treated, they being, in the Eye of the Law, of the Nature of Inland Bills of Exchange.

that unless the Word Order be inferted, no Bill of Exchange, or Promissory Note, is indorsible to another.

If the Acceptant of a Bill should chance to fail, between the Time of Acceptance, and that of Payment; Protest may be made, in that Case, for better Security, before the Bill becomes due; not but, by the good Understanding among Dealers, the Damages, as Brokerage, Interest, &c. that would follow Protest, are frequently prevented, especially

especially if the Drawer, or any of the Indorsers be sufficient Persons; for any of their Correspondents, out of Respect, may Re-accept the Bill, for Honour of the Drawer, or Indorser, if apply'd to, by the Possessor, after he has, for Security of the Re-acceptor, caused the Bill to be protested, with a Declaration, that the Bill was re-accepted for Honour of the Drawer, &c. underwriting it, Accepted, for Honour of the Drawer, & L. L. Or, if the Respect was shewn to an Indorser; Accepted, for Honour of the Indorser, W. W. & L. L. In the same Manner are to be serv'd such Bills as are drawn upon a Person, who has not equivalent Effects of the Drawer's in his Hands, or that has not receiv'd due Advice of the Bill presented to him for Acceptance; which entitles him to a legal Claim upon the Drawer, if he thinks he may venture, under those Circumstances, to honour his Bill.

When these Bills, accepted under Protest, become due, 'tis the Custom of Merchants to have a second Protest for Non-payment, made by the Possessor, with a Declaration, as before, that the Re-acceptor did pay the same, with Charges, for Honour as beforesaid; which Protests, the Re-acceptant, for his own Security, will take Care to return, with the first Opportunity, to his Friend and Correspondent, in whose Favour he advanced the Money.

Protest for better Security may also be made, if the Acceptant be under an ill Repute; upon which, if he give Security for the Payment of the Bill in due Time, the Security becomes responsible, as well as the Drawer, should

the Acceptant prove infolvent.

The Usance, or Usage of Merchants, with respect to Foreign Bills of Exchange, to and from London to Rotterdam, Antwerp, or any Part of the Low Countries, is one Kalendar Month, after the Date of the Bill; double Usance, two Months, &c. Usance from Hamburgh, Copenhagen, Stockholm, Lubeck, Strasburgh to London, and Contra is also one Month; though Bills from those, and other distant Places, are commonly drawn payable after Sight, because of the Uncertainty of their Arrival. Usance from London to Lisbon or Madrid, is two Months; to Legborn, Venice, or any Part of the Levant, is three Months, and Contra.

In computing the Time, when a Foreign Bill, payable at Usance, becomes due, Respect is to be had to the Stile of the Country in which the same was drawn; they who make Use of the New Stile, being eleven Days, at pre-

fent, in Account, before those who adhere to the Old.

The Old Stile is used no where but in Great Britain and Ireland, and in the Protestant Cantons of Switzerland; the rest of Europe, that is Christian, make use of the New Stile, as appointed by Pope Gregory XIII. who reformed

the Julian Kalendar, which before that Time was generally used.

After Bills of Exchange become due, whether Inland or Foreign, payable at Sight or otherwise, there are, by Custom of Merchants, certain Days of Grace allow'd the Acceptor, over and above the Time prescribed by the Bill, which are more or less, according to the Usage of the Country wherein they are to be paid; as in Rotterdam they allow three Days; Rouen, five; Paris, ten; Hamburgh, twelve; Antwerp and Madrid, sourteen; and London always three: And on the third Day, before Sun-set, Payment must be demanded on the Part of the Presenter; and if not complied with, the Bill must that very Day (being the utmost Time allow'd by the Law for that Purpose) be Noted, in order to be Protested for Non-Payment.

If a Bill fall due on a Sunday, or other great Holiday, it is to be demanded and paid, or protested, the Day before.

#### RECREATION X.

TF by felling Hops at 3 l. 10 s. & Cwt. the Planter clears 30 & Cent. what was his Gain & Cent. when the fame Goods fold at 4 l. and a Crown?

Answer 57 l. 17 s. 13 d. 4 l.

If by remitting to Holland, at 31 s. 9 d. Flem. Pound Sterling, 5 Cent. is gained: How goes the Exchange, when by Remittance, I clear 10 Cent?

Answer 33 s. 3 d.

If, when Port-Wine is 17 Guineas the Hogshead, a Company of 45 People will spend 20 l. therein, in a certain Time; what is Wine a Pipe, when 13 Persons more, will spend 63 l. in twice the Time, drinking with equal Moderation?

Answer 43 l. 12 s. 6 d.

I am dispatch'd on a Commission from London to Edinburgh, distant by Computation, say 350 Miles, and my Rout is settled at 22 Miles a Day: You, 4 Days after, are sent after me with fresh Orders, and are to travel 32 Miles a Day; whereabout on the Road shall I be overtaken by you?

Answer 68 14 Miles on this Side Edinburgh.

The Net Proceeds of a Hhd. of Barbadoes Sugar, were 41. 14 s. 6d. the Custom and Fees, 21. 8 s. 6d. Freight, 22 s. 8d. Factorage, 4s. 6d. The Gross-weight, was Cwt. 9. 94 lb. Tare, 1 in 10; pray then how was the Sugar rated in the Bill of Parcels?

Anfwer 19 s. 2 1 d. & Cwt. nearly.

Sold a repeating Watch for 50 Guineas, and by fo doing, lost 17 & Cent. whereas I ought, in Dealing, to have cleared 20 & Cent. then how much was it fold under the just Value?

Answer 23 1. 8s. 0 22 d.

If 6 lb. of Pepper be worth 13 lb. of Ginger, and 19 lb. of this be worth 4½ lb. of Cloves, and 10 lb. of Cloves, be equivalent to 63 lb. of Sugar, at 5 d. Pound; what is the Value of Cwt. of Pepper?

Answer 7 l. 2 s. 5 187 d.

If by fending Pewter to Turkey, and parting with it at 25 \frac{2}{3}d. Pound, the Merchant clears Cent. Cent. that does he clear in Holland, where he disposes of the Cwt. for 81.

Answer 21. 0 s. 23 d.

If 30 Men can perform a Piece of Work in 11 Days, how many will accomplish another, 4 times as big, in one fifth of the Time?

Answer 600.

A May-Pole, 50 Foot 11 Inches long, at a certain time of Day, will cast a Shadow 98 Foot 6 Inches long: I would hereby find the Breadth of a River, that running within 20 Foot 6 Inches of the Foot of a Steeple, 300 Foot 8 Inches high, will, at the same Time, throw the Extremity of its Shadow 30 Foot 9 Inches beyond the Stream.

Answer 530 Foot, 5 Inches nearly.

#### Inland BILLS of EXCHANGE.

Worcefter, April 15. 174

1.64 . 0 . 0

Payable at Sight.

A T Sight pay Mr. William Nichols, or Order, the Sum of fixty-four Pounds, the Value receiv'd of Captain John Anderson, and place it to Accompt, as & Advice from

To Mr. Michael Hale, at the Red Lion, Smithfield, London.

Edmund Dealmuch.

Sir,

Greenwich, May 10. 174

1. 13 . 10 . 0

At Sight, pay Mr. Godfrey Langham, the Sum of thirteen Pounds ten Shillings, out of my growing Sublistance, Value of Ditto, and place it without further Advice, to Accompt of, Your humble Servant,

To Mr. Jeoffry Ransford, Agent at the Horse-Guards, White-Hall, London.

Miles Cornet.

London, June 2. 174

1. 162 . 8 . 0

Payable after Sight.

Pounds eight Shillings, for the Value receiv'd of Thomas Jones, Esq; and place it to Accompt, as Yours,

To Mr. Thomas Wells, Clothier, Shrewsbury.

Alex. Countwell.

Sir,

Norwich, June 9. 174

1. 42 . 15 . 0

At fix Days Sight, pay Mr. Feremiah Snow, or Order, forty-two Pounds fifteen Shillings, Value of himself, and place it, without farther Advice, to Accompt of,

To Mr. John Sherman, Cheefe-Factor, Chefter.

Samuel Pryor.

### Inland BILLS of EXCHANGE.

Sir,

1.42.15.0

ecen Enillings, Va-

Salifbury, July 14. 174

1. 8 . 8 . 6

Payable af- Twenty Days after Date, pay William Crofts, eight Pound eight and fix Pence, Value receiv'd of ter Date. the Right Honourable the Lady Northall, and place it, as by Advice from, Yours,

To Alderman Fof. Pitts,

Exan.

Benjamin Buly.

Briftol, July 31. 174 .

1. 300 . 0 . 0

Two Months after Date, pay Mr. Luke Loudwater, or Order, three hundred Pounds, Value receiv'd of George Granby, Esq; and place it to Accompt, as by Advice from,

To Mr. Oliver Madders, at the

Bull, Breadftreet, London.

Titus Timely.

Edinburgh, Oct. 4. 174 .

1.50.0.0

The first of November next, pay Sir William Methwold, or Order, fifty Pounds Sterling, Value in ourfelves, and place it without more Advice to Accompt of.

To Sir John Paterson,

Lime-street, London.

Jonath, and David Brun.

N. B. If Sir William fends bis Servant Valentine Lively, to receive this Bill, after he has indorfed it, which is his Order, the Servant may write over it;

Receiv'd, Nov. 4. 174 . the Contents,

1.50.0.0

William Methwold.

Witness, Val. Lively.

Or only witnessing it will serve; and so of any other.

Men

Men of great Business seldom trouble themselves with Receipts and Payments of Cash, but give an Order on their Banker, thus:

Another

Meff. Norman and Fox,

London, Nov. 4. 174

1,50. ---

Payable to Pay Sir William Methwold, or Bearer, fifty Pounds on Accompt of, Bearer.

John Paterson.

Mr. Mead,

Pay Mr. Thomas Morgan, or Bearer, one hundred and seventeen Pounds three and three Pence, on Demand, and place it to my Accompt,

To Mr. Mead, Fleet-street,

London.

To Mr. Mead, Fleet-street,

Lancelot Yeoman,

Leith, Aug. 2. 174

1. 150 . 0 . 0

A Gentleman's Order on a Tenant. The second of November next, pay Hercules Horseman, or Bearer, one hundred and fifty Pounds Scots, out of your Michaelmas half Year's Rent, make good Payment, expecting no farther Advice, the Value receiv'd of him, by

To Lancelot Yeoman, in the Lordship of Killdrummy, Aberdeensbire.

Your Friend,

Killdrummy.

#### Of Foreign BILLS of EXCHANGE.

Foreign Cities, drawing Bills of Exchange upon London, always mention the Rate of Exchange, because they draw in their own Money; but when Bills are drawn by London on Foreign Cities, in Their Money, the Rate of Exchange is not mention'd, that being a particular Agreement between the Remitter and the Drawer, which concerns not the Acceptant, nor the Receiver, but they run absolutely for so many Pieces, or so much of their Current Money; except in Holland, in which Case the Sum is first prescrib'd in Sterl, and then at what Rate of Exchange.

### Foreign BILLS of EXCHANGE.

London, June 10. 174 for Crowns 612, at Ufance.

London on At Usance, pay this first of Exchange, to Col. John Ward, or Order, fix hundred and twelve Crowns, for the Value here receiv'd of the Right Honourable Charles Earl of Wrexham, and place Calais. Firft Bill. it to Accompt, as & Advice from, To Mr. Moses Maybew,

Merchant, in Calais.

Godfrey and Gower.

London, June 10. 174 for Crowns 612, at Ufance.

At Usance, pay this my second of Exchange, my first not paid, to Col. John Ward, or Order, six hundred and twelve Crowns, for the Value here receiv'd of the Right Honourable Charles Earl of Wrexham, and place it to Accompt, as by Advice from,

To Mr. Moses Mayhew, Merchant, in Calais.

Godfrey and Gower.

for Crowns 150, at 31 1 d. 2 Ufance. Paris, July 3. 174

Paris on At double Usance, pay this first of Exchange to Mr. Richard Rich, or Order, the Sum of one hundred and fifty Crowns, at thirty one Pence half Peny & Crown, Value of Mr. David Le Petre, and London. Firft Bill. pass it to Accompt, as de Advice,

To Mr. Paul Puttoff, London.

Frederick Farfetch.

Paris, July 3. 174 for Growns 150, at 31 1 d. 2 Ufance.

At double Usance, pay this second of Exchange, my first not paid, to Mr. Richard Rich, or Order, Second Bill. the Sum of one hundred and fifty Crowns, at thirty one Pence half Peny & Crown, Value of Mr. David Le Petre, and pass it to Accompt, as & Advice,

To Mr. Paul Puttoff, London,

Frederick Farfetch.

n in Alexand, in which Care the

# The PROTEST of the abovesaid Foreign BILL, for Non-Acceptance.

Paris, July 3. 174 for Crowns 150, at 31 1 d. 2 Ufances

At double Usance, pay this first of Exchange to Mr. Richard Rich, or Order, the Sum of one hundred and fifty Crowns, at thirty one Pence half Peny & Crown, Value of Mr. David Le Petre, and pass it to Accompt, as & Advice,

To Mr. Paul Puttoff,

Frederick Farfetch.

On the second Day of August, one thousand seven hundred and sorty

the Instance and Request of Mr. Richard Rich of London, Merchant, I Jonas Useful, Publick-Notary, sworn and admitted by Royal Authority, did go to the Dwelling-House of Mr. Paul Puttoff, upon whom the above Bill of Exchange is drawn; and shew'd the Original unto the said Paul Puttoff, demanding his Acceptance of the same, who answer'd me he would not accept the said Bill, for Reasons best known to himself, of which, should inform the Drawer, Mr. Frederick Farfetch: Wherefore, I the said Notary did protest, and by these Presents, do solemnly protest, as well against Frederick Farfetch, as against the said Paul Puttoff, as also against all other Persons, Indorfers, and all others Concern'd, for all Changes, Rechanges, Damages and Interests, already suffered and sustained, or to be suffer'd and sustain'd, for want of due Acceptance of the said Bill: Thus done and protested, at my Office in London aforesaid, in Presence of A. B. and C. D. Witnesses hereunto required.

Quod attefter rogatus,

Jonas Ufeful, Notary-Publick.

## Foreign BILLS of EXCHANGE.

London, Aug. 9. 174 . for 395 l. Sterl. at 34 s. 8 d. Flem. P l. Sterl. at Ufance.

London on Rotterdam, First Bill. At Usance, pay this first of Exchange, to Jacob Vanderladen, or Order, three hundred ninety-five Pounds Sterl. at thirty-four Shillings eight Pence, Flem. Pound Sterl. Value of James Moreton, Esq; and place it, as P Advice from,

To Mr. Edward Towers, Merchant, Rotterdam. Yours, Edward Eaton.

London, Aug. 9. 174 for 395 l. Sterl. 34 s. 8 d. Flem. & l. Sterl. at Ufance.

Second Bill.

At Usance, pay this my second of Exchange, my first not paid, to Jacob Vanderladen, or Order, three hundred ninety-five Pounds Sterl. at thirty-four and eight Pence, Flem. & Pound Sterl. Value of James Moreton, Esq; and place it as & Advice from,

To Mr. Edward Towers, Merchant, Rotterdam. Yours,

Edward Eaton.

Bruxelles, Sept. 24. 174 for 1197 l. 8 s. 6 d. Sterl. 2 Ufance.

Bruffels on London. Ready changed. At double Usance, pay this first of Exchange, to Mr. Philip Fare, or Order, the Sum of one thousand one hundred ninety-seven Pounds, eight Shillings fix Pence Sterl. the Value of Ditto, and place it to Accompt, as & Advice from,

To Mr. Gafpar Elbe, Merchant, London. Your humble Servant,

Bertrand Vanhove.

Bruxelles, Sept. 24. 174 for 1197 l. 8 s. 6 d. Sterl. 2 Ufance.

Second Bill.

ESTRATES

At double Usance, pay this second of Exchange, my first not paid, to Mr. Philip Fare, or Order, the Sum of one thousand one hundred ninety-seven Pounds, eight Shillings six Pence Sterl. the Value of Ditto, and place it to Accompt, as P Advice from,

To Mr. Gaspar Elbe, Merchant, London. Your humble Servant, .

Bertrand Vanboue.

London,

London, April 19. 174 . for Dollars 1000 effective, at 3 Months.

London on At three Months, pay this my first of Exchange, to Mr. Peter Peterary, or Order, Dollars one Alicant. thousand effective, the Value receiv'd of Andreas Amandretia, and pass it to Accompt, as & Advice.

First Bill. To Mr. Giles Goodpay,
Merchant, in Alicant.

Edmund English.

Let the Scholar constantly draw second, and sometimes third Bills, according to former Directions and Examples.

#### RECREATION XI.

A Tradesman increas'd his Estate annually a third Part, abating 100 l. which he spent in his Family, and at the End of 3. Years found that his Estate amounted to 3179 l. 11 s. 8 d. Pray what had he at outsetting?

A. and B. paid equally for a Horse, Feb. 7. 1740. A. on the 10th, took him a Journey into the West, and return'd on the 10th of June following; B. on the 2d of Aug. took him into Scotland, and stayed 'till Nov. 13. and this concluded his Service this Year. From Jan. 17. following, A. used him ten Days, and, in fix Weeks after his return, employ'd him 'till Apr. 30. B. then rid him from May-day to Midsummer. A. had him from the 14th of July, to fourteen Days after St. James's-tide; B. on Sept. 30. took him into Norfolk, and came back Oct. 19. He then was fold for 7 l. 10 s. and they would have the Money parted equitably between them, viz. in Proportion to the Use each made of their Steed?

Answer A. 3 l. 8 s.  $3\frac{171}{1351}d$ . B. 4 l. 1 s.  $8\frac{220}{357}d$ .

An Accomptant told a Gentleman, who had constantly eight Persons at his Table, that he would gladly make a ninth, and was willing to give 200 Guineas for his Board, so long as he could place the said Company at Dinner, differently from any one Day before; this being accepted, what did his Entertainment cost him a Year?

Part 1500 Acres of Land, give B. 72 more than A. and C. 112 more than B.

Answer A. 414 \(\frac{2}{3}\). B. 486 \(\frac{2}{3}\). C. 598 \(\frac{2}{3}\).

A. can do a Piece of Work in 10 Days, B. alone in 13; fet them both about it together, in what Time will it be finish'd?

Answer 5 15 Days.

B. and C. together can build a Boat in 18 Days, with the Affiftance of A. they can do it in 11 days: In what time would A. do it by himself?

Anfewer 28 2 Days.

Divide 1000 Crowns, give A. 129 more than B. and B. 178 fewer than C.

Answer A. 360. B. 231. C. 409.

Part 250 l. give A. 37 more than B. and let C. have 28 fewer?

Answer A. 117 1. B. 80 1. C. 52 1.

A Father divided his Fortune among his Sons, giving A. 7, as often as B. 4; to C. he gave as often 2, as B. 5. and yet the Dividend of C. came to 2166  $\frac{3}{8}$  l; what was the Value of the whole Legacy?

Answer 17060 l. 4s. 03 d.

A Stationer fold Quills at 11 s. & Thousand, by which he clear'd of the Money; but growing scarce, raised them to 13 s. 6 d. Thousand; what might he clear & Cent. by the latter Price?

In what time will the Interest of 49 l. 3s. equal the Proceed of 19 l. 6s. at Use 47 Days, at any Rate of

Interest?

Answer 18 45 Days.

A Person was possessed of a \$ Share of a Copper-Mine, and sold \$ of his Interest therein, for 1710 s. what was the reputed Value of the whole Property at the same Rate?

Answer 3800 1.

What Money at 3 ! 40 Cent. will clear 38 1. to s. in a Year and Quarter's Time?

Anfever 880 1.

X. Y. Z. can, working together, complete a Stair-case in 12 Days, Z. is Man enough to do it alone in 24 Days, and X. in 34: In what time then cou'd Yget it done himself?

Answer 79 75.

What Number is that, to which, if 13 of 18 of 141 be added, the Total will be 1?

Anfwer 3448.

A Father dying, left his Son a Fortune, 18 of which he ran through in fix Months; 3 of the Remainder held him a twelve Month longer, at which time he had bare 348 l. left; Pray what did his Father bequeath him?

Answer 1284 l. 181. 5 d.

### A FACTOR'S Remittance to his Employer.

Venice, Jan. 10. 174 . for Ducats 187. 10 Banco, at 56 d. At Ulance.

Venice on Landon.

At Usance, pay this my first of Exchange, to the Right Worshipful Sir William Goring, or Order, one hundred eighty seven Ducats, ten gross Banco, at fifty fix Pence half Peny Ducat, Value in Ourselves, and place it as & Advice,

To Nath. Gould, Efq; London.

[A Ducat is 24 Gross Banco.] Jones and Lumley.

London, Octob. 12. 174 . for 700 Ps. of & Mex. at 3 Months.

Three Months after Date, pay this my first of Exchange, to Mr. Andrew la Garde, or Order, seven Leghorn. hundred Mexico Pieces of \$, for the Value receiv'd of himfelf, and place it to Accompt, as 40' Advice from,

To Mr. John Horsey, Merchant, in Leghern.

How, Feb. 7. 174 . for 181 M. 186 Rest. Bee at 644 d. 69 M.

Lawrence Quinto.

mee, pay this my first of Exchange, to Don Pairs Ofiverez, or Order, the Sum of one Sir, Sept. 13. 174 . for 13! 11 s. 8 d.

At Sight, pay this my only Bill of Exchange, to Simon Toftain Merchant, or Order, the Sum Lucca on of thirteen Pounds, eleven Shillings and eight Pence Sterl. Value of Ditto, and place it to Accompt, London. as & Advice, Ready To Mr. Thomas Gilder, changed. Banker, in London.

Pierre de la Roche.

# Foreign BILLS of EXCHANGE.

revolutie sid of Genoa, April 28. 174 . for Crowns 500, at 65 d. Sterl.

Genoa on London.

At thirty Days Sight, pay this first of Exchange to Seignior Francisco Spavini, or Order, five hundred Crowns, Exchange at fixty five Pence & Crown, Value receiv'd of the Lords of Regency, and place it to Account of Mr. Jacques Baudin of Lyons, as & Advice from him,

At Ufance, pay this my field of Exchange, to the Riginshiell district Trides and of the Order

Gervafi Orbitelle. Tocate, ten grofs Banco, at fitty is andmed Lord Gervafi Orbitelle.

### Monsieur Baudin's LETTER, advising his Concurrence to the abovefaid Draught.

Lendon, Octob. 12. 174 . for 700 Ps. of & Mer. at 3 Months

. Later one Quinte.

Farre at in Rache.

Lyons, May 2. 174 . N. S.

To Mr. Tomas Cuar.

Sanizer. in Lordon.

Brother Orbitello of Genoa, has this Day defired me to furnish him 500 Crowns, payable to the Resident of the States at London, I have therefore order'd him to draw for the said Sum on you, which please to honour as usual, and put it to the Accompt of, Innited Marice Pieces of

To Mr. Robert French.

Banker, London.

Your Friend and Servant.

Ourfeives, and place it as que Advice,

I o Marb. Could, Elas

Jacq. Baudin.

Lifbon on London.

South San

Lisbon, Feb. 7. 174 . for 181 M. 186 Rees. Ex. at 64 1 d. W M. At Usance, pay this my first of Exchange, to Don Pedro Olivarez, or Order, the Sum of one hundred eighty one M. and one hundred eighty fix Rees, at fixty four Pence half Peny Willree, Value in Accompt, and place it to Mess. Boulet and Savary of Nismes, as & Advice from them,

To Mr. Mark Gaffer what round of ennaland to fill ying yes side you on Tower Hills London, what some sind but squilled novels show Bertrand Alberoni.

#### A DRAUGHT on the Imployer, for Value of Goods ship'd him per Factor.

Sir, St. Andrews, July 15. 174 . Millrees 300, at Ufance.

N. Britain

At Usauce, pay this my first of Exchange, to Mr. Elias Regnaud, or Order, three hundred on Lisbon. Millrees, the Value here ship'd for your Use, upon the Santa Maria of Naples, and confign'd, as Advice from,

To Seignior Santilena, at Lisbon.

Your very humble Servant,

Melvin Gordon.

#### between two ferlons, when an An Imployer's LETTER, with REMITTANCE, to his Factor in Bill of the faid Factor's Correspondent.

Mr. James Dennis,

According to your Defire, I have remitted you 1000 Crowns for my Accompt, in your Correfpondent Aubin's Bill inclos'd, payable by, and to yourfelf, for which please to give me Credit: I recommend the Contents of my last, of the 2d Current to you, and rest, Your Friend and humble Servant,

Paris, Aug. 18. 174

Estienne Benoit.

Paris, Aug. 18. 174 . for Crowns 1000, at 58 d. 4 Crown.

At double Usance, pay this my only Bill of Exchange, to yourself, the Sum of one thousand Crowns, Exchange at thirty-two Pence Sterl. & Crown, the Value receiv'd of Monsieur Estienne Benbit, and place it as P Advice, to Accompt of,

To Mr. James Denis, Merchant, in Briffol.

Aubin.

### The Correspondent's LETTER of Advice.

Mr. James Denis,

Paris, Aug. 18. 174

By this Post I have drawn on you 1000 Crowns, at 32 d. payable to yourself, Value of Monsieur Estienne Benoit, which with my other Bills depending, please to honour, and the timely Remittances shall be punctually made you by,

To Mr. James Denis, Merchant, Briftol.

Your very humble Servant,

Aubin.

The following BILL is useful between two Persons, when an Opportunity of Drawing is expected to present, or when a Sum of Money owing is dubious.

London, Nov. 3. 174 . for 3000 M. at 2 Ufance.

Lendon on Operto.

Mitals.

At double Usance, pay this my first of Exchange to myself, or Order, the Sum of three thousand Millrees, Value in your Hands, and place it to Accompt, as # Advice from,

To Edward Rowe, Esq; English Consul, at Oporto.

William Eaton.

If the first Bill be accepted, Eaton, upon Advice, Sends a second of the same Import, indors'd to his Order, which ought to be paid by Rowe, pursuant to his Acceptance of the first; if it be not accepted, drawing in this Manner prevents all the Damages of Protest, and the Inconveniencies that would follow from other Persons being concern'd therein.

### A LETTER of Advice with a BILL to a Factor.

Mr. Richard Stewart,

Norwich, Aug. 11. 174 .

Yours of the 20th past receiv'd with the inclos'd Accompt; the Balance whereof rifes higher than expected. This Day have ship'd you by the Peterborough of Milford, James Snape, Master, 13 Bales of Goods against the Fair, and have taken this Opportunity to enclose you a Bill on self, for my Balance, for which, on Sales of faid Confignment, be pleas'd to credit Your Friend and Servant,

To Mr. Richard Stewart, Briftol.

Abr. Anstrutber.

Norwich, Aug. 11. 174 . 142 l. 10 s.

The Bill.

At your Fair in September next, pay this my only Bill of Exchange to yourself, one hundred forty two Pounds ten Shillings, out of the Proceed of Goods, this Day confign'd you for my Accompt, in the Peterborough of Milford, as & Advice from,

To Mr. Richard Stewart, Briftol.

Your Friend,

Abr. Anstrutber.

#### RECREATION XII.

Grocer wou'd mix a Quantity of Sugar at 10 d. Pound, with other Sugars at 7 d. 5 d. and 4 de Pound, intending to make up a Commodity worth 6 d. Pound: In what Proportions is he to take of those Sugars?

Answer. When the Quantity is undetermin'd, as many Answers may be produced, as there are different Ways of linking together a larger and a less, than the middle or mean Rate propos'd.

A Younger Brother receiv'd 2200 l. which was just 15 of his elder Brother's Fortune; and 3 and 4 times the Elder's Money was as much again as the Father was worth: What was that?

Answer 11000 1.

A Person making his Will, gave to one Child 19 of his Estate, to another 11, and when these Legacies came to be paid, one turn'd out 540 l. 10 s. more than the other: What did the Testator die worth?

Answer 1538 l. 135. nearly.

A Father devis'd 34 of his Estate to one of his Sons, and 34 of the Residue to another, and the Surplus to his Relict for her Life; the Children's Legacies were found to be 257 l. 3s. 4d. different: Pray what Money did he leave the Widow the Use of?

medt vodgal edir Tosunder gonaled gair : tomogo A b coloni edis diivi I vigori 1 Anfwer 534 l. 2 s. 8 d. nearly.

What Number is that, from which, if you deduct the 1 of 7, and to the Remainder add 16 of 47, the Sum will be 3 list on the encire you a Bill on tell 5 ad liw

Answer 2 6691

A Lad having got 4000 Nuts, in his Return was met by Mad-Tom, who took from him & of 3 of his whole Stock: Raving-Ned light on him afterward, and forced 2 of 5 of the Remainder from him: Unluckily Positive-Jack found him, and required  $\frac{7}{10}$  of  $\frac{17}{30}$  of what he had left: Smiling-Dolly was by promise to have  $\frac{3}{4}$  of a Quarter of what Nuts he brought home: How many then had the Boy left?

Answer 575 55.

Bought 100 Quarters of Malt, Meal and Oatmeal, together for 142 !. For every 5 Bushels of Malt I had 3 of Meal, and for every 8 of Meal I had 7 of Oatmeal: Pray what did these cost me severally a Bushel, the Malt being half as dear again as the Meal, and the Meal double the Price of the Oatmeal?

Answer Malt 4s.  $9\frac{720}{1512}d$ . Meal 3s.  $2\frac{480}{1512}d$ . Oatmeal 1s.  $7\frac{240}{1512}d$ . There is a Number, which, if divided by  $\frac{16}{3}$  of  $\frac{3}{15}$ , will quote  $\frac{361}{37}$ : Pray what is the Square of that Number?

Anfwer 95 1360.

There is a Number, which, if multiplied by \(\frac{3}{2}\) of \(\frac{2}{3}\) of 2\(\frac{3}{2}\), will produce no more than 1: What is the Cube of that Number?

Answer + 995328

What Number is that, to which if you add it of 12, more to of 27, and from the Total, subtract i of 7 1, less 129 of 1 1, the Remainder shall be 8?

Answer 9 1403.

In raising a joint Stock of 400 l. A. advanced +; B. 12 of 3; C. 5 more the Difference between A's Adventure and B's, and D. the rest of the Money: What did every one subscribe?

Answer A. 123 6864 l. B. 163 4368 l. C. 107 6864 l. D. 6 6864 l.

A Person dying, left his Wife with Child, and making his Will, order'd, that if she went with a Son, 3 of the Estate should belong to him, and the Remainder to his Mother; and if she went with a Daughter, he appointed the Mother 2, and the Girl 1: But it happen'd that the was deliver'd both of a Son and Daughter; by which the loft in Equity 2000 L more than if it had been only a Girl: What would have been her Dowry had she only had a Son?

Answer 1750 l.

LETTERS

#### An Indordent of a so of of Ren indorder.

Sir, London, May 11. 174 DLease to furnish the Bearer hereof, Mr. Matthew Meanwell, the Sum of twenty Pounds, as he shall require the same, and place it to my Accompt, for which, this Letter of Credit, with his Receipt, shall be your sufficient Voucher and Warrant, giving upon Payment, a Line or two of Advice, to

To Mr. Nich. Neverfail, Merchant, in Hull.

Your real Friend,

Samuel Standfaft.

Receiv'd June 2. 174 of Mr. Nich. Neverfail, the Sum of twenty Pounds, by Virtue of Mr. Samuel Standfast's Letter of Credit, of May 11. last, for the faid Sum,

to furnille him, and take his full for find him, or any Part thereof, on the tro

20 l. Watthew Meanwell.

Sir, London, 7an. 17. 174 Please to furnish the Bearer, Mr. Jacques Bernaudin, the Sum of three hundred Pounds Sterl. Exchange, at 33 s. 4 d. Flem. Pound Sterl. to employ for my Accompt; for which Sum, or any Part thereof, take his Bills on me, as Advice from,

To Mr. Claude Crefpigny, Merchant, in Antwerp.

Your hamble Servant.

Your humble Servant.

Kendrick Keeptouch.

Exo. 300 l. Sterl. Antwerp, March 10. 174

To the Honourable Quintiller

At Sight, pay this my only Bill of Exchange, to Mr. Claude Crespigny, or Order, the Sum of The Bill. three hundred Pounds Sterl. the Value here received of him, for your Use, and place it, as Advice, to the Accompt of,

To the Worshipful Kendrick Keeptouch, Efq; Your humble Servant, in Mark-Lane, London.

Jac. Bernaudin.

# LETTERS of CREDIT.

# An Indorsement or Assignation of the said BILL to another.

Pay Ifrael Falgate, or Order, Value in Accompt,

Claude Grefpigny,

This Bill, drawn upon Receipt of the Sum mentioned, by the Factor Bernaudin, upon the Imployer Keeptouch, and indorsed by the Presenter Crespigny, to Falgate, far Reasons between themselves, is payable, like other indorsed Notes, to any Bearer, who shall Witness the Payment, by writing his Name under that of the Indorser: Not but Merchants, to prevent Impositions by Forgeries, require Foreign Bills, in dubious Cases, to be sign'd by some substantial Person in London, by way of Attestation, that the Bill presented is genuine; upon Credit whereof, they will venture to accept or pay it.

The Bearer, Mr. Richard Avery, will have occasion for fifty Pounds, which Sum, I desire you to furnish him, and take his Bill for said Sum, or any Part thereof, on the Honourable Quintilian Quicksight, Esq. I am,

To Henry Hoare, Efq; Fleet-fireet, London,

Tour burnelle (i

Your most humble Servant,

Roger Renolds.

Sir

nA

Ex 561. London, Feb. 14. 174

The Bill. At one and twenty Days Sight, pay this my first of Exchange, to Henry Hoare, Esq; or Order, the Sum of fifty-six Pounds, the Value receiv'd of Ditto, for your Use, as & Advice from, To the Honourable Quintilian Sir,

Quickfight, Esq; Dublin.

Your humble Servant,

Richard Avery.

In the Bill, the then current Exchange, suppose 12 l. & Cent. is to be added to the Sum, ordered in the Letter of Gredit, which sent indors'd to Renolds, with these Words:

Pay Mr. Roger Renolds, or Order, Value in Accompt,

Henry Hoare.

And

And if Renolds should have Occasion to indorse it to some other Person, thus:

Pay Thomas White, Esq; or Order, Value of Ditto.

Roger Renolds.

The last Possessor will be thereby entitled to the Contents of Quicklight, when due. This Affair might also have been transacted, without Indorsement, in Manner following.

Ex. 56 1. London, Feb. 17. 174

At one and twenty Days Sight, pay this my second of Exchange, my first not paid, to Roger Renolds, Esq; or Order, the Sum of fifty-six Pounds, the Value receiv'd for your Use, of Henry Hoare, Esq; as Advice, from To the Honourable Quintilian

Your humble Servant,

Quicksight, Esq; Dublin.

Richard Avery.

# A General LETTER of CREDIT, to furnish a Person according to his Occasions.

The Bearer Mr. Stephen Monteage, one of his Britannick Majesty's Messengers, being ordered to Constantinople,

will have Occasion for Money to defray his Charges, &c. Please to furnish him with the Sums he shall require, at faid Place, taking his Receipts; and your Draughts for the Value, shall receive due Honour, from

A Monsieur, Monsieur Salonnier, Your humble Servant.

Banquier, a Vienne.

Mich. Toffier.

The Bill consequent to this Letter of Credit, drawn by Salonnier at Vienna, on Tossier, at Paris, for the Sum furnished Monteage.

Sir,

Vienna, April 3. 174 for 720 Flo. at Liv. 3. 4. 0.

At four Days Sight, pay this my only Bill of Exchange, to Sieur Louis Dugarde, or Order, the Sum of seven hundred and twenty Florins, Exchange at three Livres sour Sol. & Florin, the Value paid at Constantinople, to Monsieur Stephen Monteage, pursuant to your Letter of Credit of the 2d of March last, and as by Advice from said Monteage,

A Monsieur, Monsieur Toffier, Banquier, a Paris, Andrew Salonnier.

# RECREATION XIII.

A Merry young Fellow, in a small Time got the better of 3 of his Fortune; by Advice of his Friends he then gave 2200 l. for an Exempt's Place in the Guards; his Profusion continu'd till he had no more than 880 Guineas left, which he found by Computation was just 3 Part of his Money, after the Commission was bought:

Pray what was his Fortune at first?

Answer 10450 l.

Another of the same Character had 18200 l. left him by an old Uncle, to whose Memory he expended 3 & Cent. of his whole Fortune in a sumptuous Funeral and Monument; 9 & Cent. of the Remainder, he made a Present of to his Cousins, forgotten, for his Sake, by the old Man; with 3 of what was left, he bought a fine Seat; with 3 of the Residue, a Stud of Horses; he squander'd away 550 l. upon one Mistress; and after he had liv'd at the Rate of 2000 l. a Year, for 10 Months together, he had both ruin'd his Health and impair'd his Fortune: Pray, at his Death, what was there left for his Sister, who was his Heir at Law?

Answer, 6324 l. 1 s. nearly.

A Tobacconift has by him 120 lb. of fine Oromoko Tobacco, worth 2 s. 6 d. a Pound; to this he wou'd put as much York-River Ditto at 20 d. with other inferior Tobacco's at 18 d. and 15 d. a Pound, as will make up a Mixture answerable to 2 s. a Pound: What will this Parcel weigh?

Answer, 2337 lb. nearly.

A Father, ignorant in Numbers, order'd 500 l. to be divided among his five Sons thus: Give A. fays he,  $\frac{1}{3}$ ,  $B_{\frac{1}{4}}$ , to C.  $\frac{1}{5}$ , D.  $\frac{1}{6}$ , and E.  $\frac{1}{7}$ : Part this equitably among them, according to the Father's Intention.

Answer A. 152 1334 l. B. 114 1044 l. C. 91 1386 l. D. 76 696 l. E. 65 1734 l.

Three Persons purchase together a West-India Sloop, towards the Payment whereof, A advanc'd  $\frac{3}{8}$ , B.  $\frac{3}{7}$ , and C. 140 l. How much paid A and B and what Part of the Vessel had C?

Answer, A. and B. together paid 572 11 1.

A. and B. clear by an Adventure at Sea, 50 Guineas, with which they agreed to buy a Horse and Chaise; whereof they were to have the Use, in proportion to the Sums adventured, which was found to be A. 10. to B. 7. they
clear'd 45 # Cent. What Money then did each send abroad?

Answer, A. 68 l. 12 s. 6 1 d. B. 48 l. 9 1 d.

A. and B. join their Stocks, and veft them in Brandiy. A's Stock was 191. 195. 8d. more than that of B. Now, by felling out their Commodity at 553. per Anker, A. clear'd 741. 115. and B. just 50 Guineas. The Quantity of Brandy dealt for is required, and the Gain upon the Anker?

RECREA

Answer, 88 Ankers, whereon clear'd 1 1. 8 s. 10 1 d. per Anker.

In an Article of Trade, A. gains 14s. 6d. and his Adventure was 35s. more than B's, whose Share of Profit is but 8s. 6d. What are the Particulars of their Stock?

Answer, A. 41. 4s. 7 d. B. 21. 9s. 7 d.

A. has Currans worth 4 d. a Pound, but in Truck, charges 6 d. and also requires \(\frac{1}{2}\) of that in ready Money. B. has Candles worth 6 s. 8 d. the Dozen, and he in Barter, Honest man, charges but 7 s. Should these Persons deal

together for the Value of 20 l. how much will A. have got of B?

Answer 6 l. 3 s. 9 ½ d. That is to fay,

A. lets B. have Currans to the Value of 20 l. which stood him in but ½ of the Money, or 13 l. 6 s. 8 d,

In return B. gives him in Money 10 l. and to the Value of 10 l. in Goods, which Goods cost him

9 l. 10 s. 5 ½ d. The Difference in Account is as above to the Advantage of A.

Three Persons enter'd joint Trade, to which A. contributed 210 l. B. 312 l. they clear 140 l. whereof 37 l. 10 s. belongs of right to C. that Person's Stock, and the several Gains of the other two, are requir'd?

Answer, C. Stock, 190 1. 19 s. 6d. A. Gain'd, 41 l. 4s. 8 1 d.

A always pertinent, and conceiv'd in so clear Terms, as may neither give his Reader Hesitation or Doubt. And, as there ought to be nothing obscure or superfluous in them, so ought they to have no affected Abbreviations; for these will often make them ambiguous, or too generally express'd.

All Orders, Commissions, and material Circumstances of Trade, are to be plainly and explicitly deliver'd; nothing should be presum'd, understood or implied. Your Correspondent is to be expressly told, what you would have done on his Part, and what he may depend on, on your's. There should be no Possibility of a Disappointment left, thro' his not being fully inform'd of your Intentions: For, when Orders are darkly given, they are doubtfully observ'd; and a Mistake in Commerce must always be of Consequence.

Nor ought the Correspondent, on the Receipt of Letters, to be less punctual in answering every Article therein referr'd to him; to each Particular whereof, he is to reply distinctly and directly. Nothing must be omitted by him,

or left in Suspence, lest the Correspondence should suffer, for want of proper Intelligence.

The Stile fit for Letters, should be short, familiar, neat and significant; like that of Conversation. The Trader should converse with his Correspondent, by Letter, just as he would do, was he to meet him personally upon Change; and whatever he would say, sace to sace, that is proper to be written, on any Point of Bust-pess.

#### A Country Chapman's ORDER for Goods.

Mr. Niebelas Candy,

H Aving compleated my seven Year's Service with Mr. Laurence Dealwell, your old Chapman, I have now ventur'd into the World, and taken a Shop in the same Town; I would desire you to send me by the next Return half a But of Currans; 5 Barrels of Raisins of the Sun; 8 Frails of Malaga; Sugars, at 3d. 4d. and 5d. \$\frac{1}{2}\$ Pound, each 4 Cwt. Cloves, Mace, Nutmegs, Cinnamon, each 3lb. \$\frac{1}{2}\$ Cwt. of Pepper; a Cwt. of Pymento; 16 Sugar Loaves of various Sorts; 4 Cwt. of Treacle; 5 Cwt. of Prunes; 2 Barrels of Figs; \$\frac{1}{2}\$ Cwt. of Ginger. Draw your Bill upon me for half the Value, it shall be paid at Sight, the rest at three, or four Months: So that I expect a Price according. For being a young Man, if I cannot buy and sell my Goods as low as others, I must expect no Trade. As you deal with me in this, you shall hear more frequently, from

Your loving Friend,

Thomas Hopeful.

# The Apprentice's ANSWER, his Master being Sick, or out of the Way.

Mr. Thomas Hopeful,

MY Master's Indisposition confining him to his Bed, renders him unfit to write an Answer to your's of the 25th of May last; however, he has order'd me to let you know, that the Confidence you have repos'd in him, he takes very kindly, and assures you, that he will use you so well, and go so low, that you shall be very well satisfied. I have taken care to put up as choice Goods as any are in Town, and sent them by Lawrence Carrywell the Carrier. The particular Quantity and Prices, I have, in a Bill of Parcels, hereunto annex'd; and, at your desire, have drawn on you for the Value, payable to Mr. Charles Dean, or Order. For the Remainder my Master would not have you streighten yourself for Time, and hopes he shall have your farther Order, as you find he deals with you in this, which is all that offers at present, from

Your humble Servant,

Ready Writer;

Servant to Mr. Nich. Candy.

London, June 11. 174 .

The Apprentice's LETTER, advising the said REMITTANCE, to another of his Master's Correspondents.

Mr. Charles Dean,

MY Master has kept his Bed this Fortnight, with the Gout, but is at present better. He orders me to acquaint you, that having an Opportunity of paying you some part of your Balance, he has inclosed remitted you a Bill, for 65 l. 14s. 1d. on Mr. Thomas Hopeful, your Townsman, to be paid at Sight. He is beginning the World, and my Master being partly a Stranger to him, desires when you write, to advise something of his Character and Circumstances. Please to give a Line upon Receipt of the Bill, and as Opportunity presents, you may depend upon the rest. This at present, with the Family's Service, is all from.

Sir,

Your humble Servant,

P. S. My Master desires to be inform'd,
what the Assignees have done
in Mr. Chapman's Assair; and
whether Mr. Indolent's Certificate will be allow'd.

Ready Writer.

# The BILL inclosed.

Sir,

London, June 11. 174 . for 65 l. 14 s. 1d.

At Sight, pay to Mr. Charles Dean, or Bearer, the Sum of fixty five Pounds, fourteen Shillings, and a Peny, the Value here deliver'd in Goods to Lawrence Carrywell, for your Use, and place it to Accompt of my Master Nicholas Candy, as & Advice, from

To Mr. Thomas Hopeful, Grocer, Chefter. Your humble Servant,

Ready Writer.

# The BILL of PARCELS upon the preceding LETTER,

Sold to Mr. Thomas Hopeful of Chester, June 11, 174 .

But of Currans, — wt. G. Barrels of Raifins of the Sun, 8 Frails of Malaga Raifins, — Ditte.	r. 9.0.7 Tr. 12 15.0,0 18 4.0.0 2 4.1.0 2 4.1.0 2 4.1.5	6. Cwt. qr. 10 Nt. 7 · 3 13 · 1 16 · 3 · 2 18 · 4 · 0 18 · 4 · 0 18 · 4 · 0 19 · 4 · 0	1b. d. 7 at 4 16 3 20 2 2 3 4 0 5 0 9 0 8	# # L. f.	4,
3 Pound of Cloves,  3 lb. of Mace,  De. Cinnamon,  D'. Nutmegs,  Cwt. of Pepper,  1 Cwt. of Pymento,  4 Sugar-Loaves,  Ditto.  Ditto.  Ditto.  4 Cwt. of Treacle,  5 Cwt. of Prunes,  2 Barrels of Figs, wt. Gr. 1 & Cwt.  4 Cwt. of Ginger,	— /b. ——————————————————————————————————		s. d. 7 · 4 13 · 0 6 · 0 7 · 0 3 · 3 1 · 5 0 · 8 0 · 9 0 · 10 13 · 9 13 · 0 29 · 2 0 · 7	₩ lb.	Ary Are Vocaba

#### Another Chapman's ORDER for Goods.

Mr. Nich. Allom and Comp.

This is to desire you to send the the next Vessel, bound for Exeter, the Goods following, viz. Galls, 3 Bags; Indigo, 5 Barrels; Allom, 17 Cwt. Logwood, ½ a Ton; Madder, 14 Cwt. Copperas, 3½ Tons; Babia Brazil, 4 Cwt. Bourdeaux Cream of Tartar, 6½ Cwt. West-India Fustick, 5½ Ton; Red Sanders, 6½ Cwt. Valona Caps ground, 9½ Cwt. For the Balance of my last Accompt being 295 l. 145. 9d. I have here inclosed sent you a Bill of Exchange, at 12 Days Sight, on Mr. Lawrence Gemroy, Merchant in London, to whom I have given Advice this Day. Set the Prices as low as you can, and when you expect your Money for this Parcel, draw your Bills upon me, they shall receive due Honour, from

Your loving Friend,

Zach. Careful.

#### The BILL inclosed.

Sir,

Ex. 295 l. 14 s. 9 d. Exon, June 16. 174 .

At twelve Days Sight, pay Mr. Nich. Allom, or Order, the Sum of two hundred ninety five Pounds fourteen Shillings and nine Pence, and place it to Accompt, as P Advice, from
To Mr. Lawrence Gemroy,

Yours,

Merchant, in London.

Zach. Careful.

# A LETTER of Advice upon the mentioned Draught, to Mr. Lawrence Gemroy.

Your's of the 20th past came to hand, the Day the Vessel sail'd with your Goods on board; I shall however take the first Opportunity to send the Stuffs mention'd in your last Order: Mean time, have this Post drawn on you 295 l. 14 s. 9 d. at 12 Days Sight, to Mr. Nich. Allom, or Order, which please to honour as usual, to oblige,

Exon, June 16. 174 .

Your affectionate Kinsman, and bumble Servant, Zach. Careful.

# An Apprentice's ANSWER to the foregoing LETTER, from Mr. Zach. \*\*Careful.\*\*

MY Master receiv'd your's of the 16th Instant, with the Bill of Exchange inclos'd, which is now accepted. The Parcel of Goods, writ last for, I have this Day ship'd on Board the Coaster of Exon, John Miller, Master, being mark'd and number'd as & Margin. The Bill of Lading, and the Bill of Parcels are both annex'd. My Master and Partner are now out of Town; for that Reason, I have taken all possible care to please you in both Goods and Prices. What you have farther occasion for in our Way, be pleas'd to signify your Order, and it shall faithfully and diligently be perform'd, by

Your humble Servant,

Ferdinando Failnone, Servant to Mr. Nich. Allom, and Company.

# The BILL of PARCELS on the preceding LETTER.

Sold to Mr.	Zachary C	areful, 7	une 2	4.	74			per l'enie
3 Bags of Galls — wt. Gr. 9 . 2 . 27	Tr. 36	Cwt. Nt. 9:	qr.	16.	1. at 3	5 .	0	Cwt. 1.
5 Barrels of Indigo, 15 . 2 . 19 17 Gwt. of Allom,  1 Ton of Logwood,	COMPAN	oip i	100	03	. 0	12 .	0	Ton.
14 Cwt. of Madder,		70			8	0 .	0	Ton.
61 Cwt. of Bourdeaux Cream of Tartar,	odo fiel in			-	0	14 .	0	
6½ Cwt. of Red-Sanders, ground - ground	g + 10		- 1		0	11 .	6	

<sup>\* [</sup> As # Margin in the subsequent Bill of Lading.]

#### The BILL of LADING.

B

No

I to II.

Ship'd, by the Grace of God, in good Order, and well Conditioned, by [Mr. Nich. Allow and Company,] in and upon the good Ship, called the [Coaster of Exeter,] whereof is Master, under God, for this present Voyage, [John Miller,] and riding at Anchor, in [the River of Thames] and by God's Grace bound for [Exeter.] To say, [eleven Parcels of several forts of Goods, \_\_\_\_\_] being mark'd and number'd as in the Margin, and are to be delivered in like good Order, and well condition'd, at the aforesaid Port of [Exeter,] (the Danger of the Seas only excepted) unto [Zach. Careful,] or to his Assigns, he or they paying for Freight of the said Goods, [sixteen Shillings four Pence] & Ton, with Primage and Average accustom'd: In Witness whereof, the Master or Purser of the said Ship has affirm'd to \* three Bills of Lading, all of this Tenor and Date, one of which being accomplish'd, the other two stand void. And so God send the good Ship to her desir'd Port in Safety. Amen.

Dated in [London, June the 24th, 174 .]

The Contents and Quality unknown,

John Miller.

# The BILL of ENTRY, at the Custom-House, June 24. 174

In the Coaster of Exon, John Miller; for Exon. Nich. Allom and Company.

NIne Hundred, one quarter and nineteen Pounds of Galls.

Fifteen Hundred and three Pounds of Indigo.

Seventeen Hundred of Allom, &c. (as & foregoing Bill of Parcels exactly.)

\* The three Bills of Lading mention'd, are dispos'd of in this manner; one remains with the Person who ship'd the Goods; one is kept by the Master of the Ship; and the Third is sent to the Person who is to receive them.

# A Third ORDER from the Country, for Goods.

Mr. Nebemiah Holland, Worcester, July 24. 174 . Am forry you should meet with a Disappointment, in the Return of Money, which I order'd Nich. Careless to pay you, when he was in London last Week: The first opportunity that offers, I shall take care to remit you a Bill, or if you have any Opportunity, draw your Bill on me, it shall be paid at Sight. Be pleas'd to fend me by the Carrier, the next Return, 3 Ps. of Dowlas; Hollands, at 2s. 1d. 2s. 8d. 3s. 2d. 3s. 9d. each 2 Ps. and 2 Ps. of Bag Holland, at 4s. 8d. five Ps. of Cambrick, from 3l. 10s. to 5l. 3 Ps. of Checks, 10 Ps. of Blue Hertfords, 6 Ps. of Ghentings, 4 Ps. of Muslins, from 4 l. to 8 l. 3 Ps. of Crocus. Send the lowest Price, and the Time of Payment, I shall be punctual, being

Your loving Friend,

Samuel Longell.

#### nd trot h'mit ind et did boog ant A Servant's ANSWER.

Mr. Samuel Longell, London, Aug. 10. 174 . YOur's of the 24th of July last was receiv'd. I have & John Surley, Worcester Carrier, sent you the Goods wrote for, in your last; the Bill of Parcels have hereunto annex'd. My Master's Affairs calling him to Briftol. I have done my utmost to content you, both in Goods and Prices; being of Opinion you never had better Goods, or a better Penyworth. For what remains on the old Accompt, an Opportunity will offer to draw a Bill on you next Week. What you have occasion for farther, fignify your Order, it shall be carefully followed; and as to time of Payment, my Mafter will be as reasonable as any Man. I add no more at present, but that I am, Your humble Servant,

Thomas Measurewell, Servant to Nebemiah Holland

# The BILL mention'd to be drawn at Opportunity.

Your Miler: for Evan, Nith. Albert and Company.

861. 10s. London, Aug. 19. 174 .

Pay Mrs. Charity Somerfield, or Order, the Sum of eighty fix Pounds, ten Shillings, eight Days after Date, Value of Capt. Edward Somerfield, and place it to Accompt of my Master Nehemiah Holland, as & Advice from To Mr. Samuel Longell, Your very humble Servant, Draper, in Worcester.

Tho. Measurewell.

# The BILL of PARCELS.

	Sold to Mr. Samuel Long	ell, Aug. 11. 174 .		1 1 1 1 1 1 1 1 1
	0.	Ells. s.	d.	1
3 Ps. of Dowlas,	Qt.	$\frac{84^{\frac{1}{2}}}{38^2}$ at 1.	1 ½ \$\psi \text{Ell.}	- 1.
Ditto.		38 2.	8	a semily of the series a
Ditto.		39 1 3.	2	
Ditto.		37 1 3 .	9	Tonic era ozna Zo
3 Ps. of Bag Holland, -	-	77 = 4.	8 —	The lognomental
I Ps. of Cambrick,	Qt.	8 — 11 .	6 40 8 001	- 3.9.0
Ditto.	Q.	8 12.	6 WYard.	Tato . STONOWN
Ditto.			6	-1 10 11 11 11
Ditto.		8 16.	THE RESIDENCE OF THE PARTY OF T	terrine vi asali
10 Ps. of Hertfords, -		1/	6 1	
3 Ps. of Checks,		45 35 ·	o # Ps	Tomai and A.
6 Ps. of Ghenting, viz.	and the state of t	Yds. s.	d.	court of his Conserva
Nº. 1	Qt.		10 1 W Yard	- Lant L Graceque
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1 1 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1		8 2.	A STATE OF THE PARTY OF THE PAR	torréqui ovad I
r Ps. of Muslin,	The state of the second	20 - 4.	0 7 01 3190 45	कत. कु ८६छ. १ व
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Ditto.	NUMBER OF STREET	21 1 6.	10	181 Tri. 00. 5
Ditto.	Charles and the control of the contr	20 8.	O THOUSEFIE IN	Mo eni W adi 406
3 Ps. of Crocus,		84 10.		
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#### RECREATION XIV.

A. and B. in Partnership equally divide the Gain; A's Money, which was 84 l. 12 s. 6 d. lay for 19 Months, and B's for no more than 7: The Adventure of the latter is fought?

Answer 229 l. 13 s. 11 \frac{1}{2} d.

In 117 times 406 Pieces of Coin, worth 3 s. 8 \frac{2}{3} d. a Piece; how many Reas at 20 for 3 d. English?

Answer 14145040.

A. has Kerseys at 41. 5 s. a Piece, ready Money; in Barter, they are, charg'd by him, at 51. 6 s. each, and of that required down. B. has Flax at 3d. a Pound; how ought he to rate it in Truck, not to be hurt by the Extortion of A?

Answer 5 d. nearly.

Lent 109 Guineas, at 4 & Cent. which by the 18th of Aug. 1740, was rais'd, by the Interest, to as many

Moidores, bating 25. 6 d. Pray on what Day did the Bond bear Date?

Put out 384 1. to Interest, and in 8 1 Years, there were 542 1. 8 s. found to be due; what Rate of Interest could then be implied?

Answer, 5 & Cent. Annum.

A. for a nine Month's Adventure received 20 l. B. for one of 7 Months received 25 Guineas; and C. for lying out of his Contribution 5 Months, had a Title to 32 l. The Total of their Adventures, multiply'd into their respective Times, was 640 l. What then were the Particulars?

Answer, A. 181. 35. 6d. B. 301. 135. 5d. C. 521. 6s. 10 \frac{3}{4}.

A. clears 131. in 6 Months; B. 181. in 5 Months; and C. 231. in 9 Months, with a Stock of 721. 105.

What then did the general Stock amount to?

I have imported 80 Jars of Luca Oil, each containing 1180 folid Inches: What came the Freight to, at 4 s. 6 d. Cwt. Tare, 1 in 10; counting 7 ½ Pounds of Oil to the Wine Gallon of 231 Cubic Inches?

Answer, 6 l. 16 s. 9 \frac{1}{2} d.

A. had 15 Pipes of Malaga Wine, which he parted with to B. at 4 \frac{1}{3} \pm Cent. Profit, who fold them to C. for 38 l. 11 s. 6 d. Advantage; C. made them over to D. for 500 l. 16 s. 8 d. and clear'd thereby, 6\frac{1}{2} \pm Cent. What did this Wine cost A. a Gallon?

If 19 Yards of yard-wide Stuff exactly line 14 Yards of Silk of another Breadth: How many of the latter will line 184 Pieces of the former, each Piece holding 28 ½ Yards?

Answer, 3864 Yards.

A. has 50 Broad-Cloths, at 11 l. 10 s. a Piece, but in Change, requires 13 l. taking Wool, at 2 s. 6 d. Stone of B. in Return, that was really worth but 4 s. 2 d. a Tod: The Question is, how many Sacks of Wool will pay for the Cloth, and which of the Dealers has the better in the Bargain?

V. of Amsterdam, draws on X. of Hamburgh, at 67 d. Flem. P Dollar of 32 Solz Lubeck; and on Y. of Nuremburgh, at 70 d. Flem. Florin of 65 Crutzers Current: If V. has orders to draw on X. in order to remit to Y. at said Prices, how would run the Exchange between Hamburgh and Nuremburgh?

M. of Amsterdam, orders N. of London, to remit O. of Paris, at 54 d. Sterl. & Crown, and to draw on P. of Antwerp, for the Value, at 33 \frac{1}{2} s. Flem. Pound Sterl. but as soon as N. received the Commission, the Exchange was on Paris, at 54 \frac{1}{2} \infty Crown: Pray at what Rate of Exchange ought N. to draw on P. to execute his Orders, and be no Loser?

A. with Intention to clear 30 Guineas, on a Bargain with B. rates Hops at 16 d. Pound, that flood him in 10 d. B. appriz'd of that, fets down Malt, which cost 20 s. a Quarter, at an adequate Price: How much Malt did they contract for?

Answer, 420 Bushels.

A. and B. venturing equal Sums of Money, clear by joint Trade 1541. By Agreement, A. was to have 8 Cent. because he spent Time in Execution of the Project, and B. was to have only 5: The Question is, what was allotted A. for his Trouble?

Answer, 35 l. 10 s. 9 \frac{1}{4} d.

A. in order to put off to B. 720 Ells of damag'd Holland, worth 5 s. an Ell, at 6 s. 8 d. proposes, in case he has \frac{1}{2} the Value in Money, to give B. a Discompt of 10 \pm Cent. The rest A. is to take out in Saffron, which B. appriz'd of the whole Management, rates in Justice, at 30 s. the Pound: Pray what was it really worth in ready Money; and what Quantity of Saffron was he to deliver on the Change?

Answer, 20 s. the Pound, and 72 of them.

A. lent his good Friend B. fourscore and eleven Guineas, from the 11th of December to the 10th of May following; B. on another Occasion let A. have 100 Marks, from September 3. to Christmas following: Query, how long ought the Person oblig'd, to let his Friend use 40 l. fully to retaliate the Favour?

Laid out in a Lot of Muslin 480 l, 12 s. upon Examination of which, two Parts in seven proved damaged; so that I cou'd make but 5 s. 6 d. a Yard of the same; and by so doing find I lost 48 l. 18 s. by it. At what Rate per Ell am I to part with the undamaged Muslin to make up my said Loss?

#### A LETTER from a Merchant to his Factor.

Mr. Isaac Sharp,

Your's of the 11th current I received, and am glad to understand you will recover good Part of your Loss, of the Insurers of the Swan. My Account of Sales inclos'd I have examined, and am satisfied with the Net Proceed and your Management therein. With Convenience, please to buy 10 Hhds. of white Biscuit, and 49 Barrels of Beef, and send of first Vessel to Jamaica, consign'd to Mr. Thomas Gunston, for my Accompt: Pray engage your Victualler to get the Beef carefully salted and barrelled, considering the Climate to which it is sent; I am,

London, July 19. 174

Your Friend and Servant,

Richard Allom:

## ANSWER from the Factor to his Imployer.

Mr. Richard Allom,

The New York of the Invoyee and Bill of Lading of 49 Barrels of Beef, and 10 Hhds. of white Biscuit, bought and consign'd by your Order to Mr. Thomas Gunston, at Port-Royal; which being well cask'd, I hope will prove well, and arrive to a good Market. An Opportunity presents of Drawing upon you for the Value, payable at one and twenty Days Sight to the Commissioners of Customs at London, which I must entreat you to honour, and hope in a very short Time to answer your Expectations, as to my Balance depending: In the mean time, as Occasion offers, let me have the Honour of your Commands, who am,

Dublin, Sept. 7. 174

Your oblig'd humble Servant,

Isaac Sharp.

For Practice, the Learner may be put to draw Bills of Lading, Entry and Exchange, consequent to this Advice, by former Precedents.

Invoyce

Laus Deo. in Dublin, Sept. 5. 174

Invoyce of 49 Barrels of Beef, and 10 Hhds. of white Biscuit, ship'd by me Isaac Sharp on board the Dublin-Merchant, Nich. Tory, Master; and goes consign'd to Mr. Thomas Gunston, Merchant, at Port-Royal in famaica; for the proper Account and Risque of Mr. Richard Allom of London, being mark'd and number'd as Margin. Content, Cost, and Charges, viz.



Nº 1 to 59.

#### CHARGES.



To Custom of the Beef,	. 2. 9.0
	0.10.0
Entry, and Fees of Cocket,	0. 5.6
	0. 7.6
Carts to the Custom-house, 1 ½ d. P Barrel,	0. 6.I
Carts for Hhds. to the Baker's, and to the Custom-house,	
For 10 Hhds. 25 s. and Cooperage, Hoops and Heading, 16 s.—	2. I.O
Porters and Shiping,	0. 3.4

Supposing the Exo Current to be 10 \*\*Cent. in favour of England; pray what Sum may Mr. Sharp at Dublin draw for on London, on Account of the Factory above? To my Commission at 2 1 Cent.

1. 1.9.5

Errors excepted,

W Isaac Sharp.

Answer, 1. 54 . 17 . 3

[Invoyce or Factory] is the Account of Cost, Custom, Provision, Charges, &c. of Goods, Sent from a Merchant or Factor, to his Correspondent or Imployer, beyond Sea.

[Commission or Provision] is an Allowance to the Factor, for his Pains in doing Business for his Imployer.

Invovoe

Port Royal in Jamaica, Nov. 15. 174 Invoyce of 5 Barrels of Indigo, 5 Hhds. of Pymento, and 5 Hhds. of Sugar, ship'd on board the Lyon, William Jones Master; for Accompt and Risque of Nath. Owen, Merchant in London, being mark'd and number'd as under. Contents, Costs and Charges, viz.



```
Indigo, 5 Barrels.
                 Nº. 142
                                 The state of white the course of fines day at 15 %, but the Representation of the state of the s
                                              OHARGES ...
                                            756 lb. Nt. at 2 s. 1 d. # lb. ---
       Pymento, 5 Hogsheads.
                   Nº. Gr. 432 Tr. 84 16.
                                                         396 72 Gr. 2026
                                                        410 81 - Tr. 389
                                          376
                                                                                      82 Nt. 1637 at 11 1 d. 4 lb.
                                                  412
                                                                                       389
                                                  2026
Sugar, 5 Hogsheads.
                                                                                      Cwt. gr. lb.
                                                                                                  Gr. 52 . 1 . 20
Tr. 8 . 2 . 0
            Larges to growing
                                                                                                   Charges, viz.
```

To Coft of 5 Barrels and 10 Hogsheads	4	7	9
To Storage, 2 ½ \$\psi Cent.\$  To Commission, at 5 \$\psi Cent.\$			7

Errors excepted, & Edwin and Sandcroft. 1. 230 . 10 . 10

Note, In the American Plantations, 100 lb. is their Cwt.

RECRE-

# RECREATION XV.

A Bond was made on the 7th of August 1713, at 6 per Cent. per Annum for the Sum of 1114 l. 10 s. On the 11th of May 1718, 140 l. was paid off, and a fresh Bond enter'd into for the Remainder at 5 \frac{1}{4} per Cent. per Annum. At the Time the Interest of this last was 21 l. 16 s. 8 d. there was paid off 87 l. 11 s. 9 d. The old Bond being then taken up, a new one was given for the Residue; which being paid off on the 11th of September 1724, the Bond-owner took no more than 1409 l. 16 s. 8 d. in full Payment. At what Rate then did he take Interest per Cent. per Annum upon the last Renewal of the Bond?

Anfwer, 21. 95. 6 . d.

A. B. and C. will trench a Field in 12 Days; B. C. and D. in 14; C. D. and A. will do it in 15; and D. A. and B. in 18: In what Time will it be done by all of them together, and by each of them fingly?

Answer, Together in 10,83 Days. By A. in 47,848. B. 38,969. C. in 27,194. D. in 111,176 Days.

A. at Paris, draws on B. of London 1200 Crowns, at 55 d. Sterl. & Crown, for the Value whereof, B. draws again on A. at 56 d. Sterl. & Crown, besides reckoning Commission & Cent. Did A. get or lose by this Transaction, and what?

Answer, He got 15 Crowns &

Amsterdam changes on London, at 34 s. 4 d. Pound Sterl. and on Lisbon, at 52 d. Flem. for 400 Reas: How

then ought the Exchange to go between London and Lisbon?

Answer, 75 75 d. Sterl. for 1000 Reas,

A Druggist has by him 4 Sorts of Green Tea, viz. of 5 s. 6 s. 8 s. and 9 s. & Pound: Out of these he is incin'd to mix up a Tub, containing Nt. a Hundred and a half, so as to make the Commodity worth 7 s. the Pound: In what Proportion must those Tea's be taken?

Answer, Either 42 lb. of each; or else 28 lb. of those of 8 s. and 6 s. with double that Quantity of the other two Sorts: And in Truth as many Answers may be found to this Proposition, as there are different Ways of alligating properly the Prices of the Goods propos'd. The Judgment of the Trader will however rather appear in consulting the Quality of his Goods, in order to the making an agreeable Mixture of them, than in taking any Direction from their Price or Value.

A. has 100 Reams of Paper, at 8 s. ready Money, which in Barter he fets down at 10 s. B. fensible of this, has Pamphlets at 6 d. a Piece, ready Money, which he adequately charges, and infifts besides on \(\frac{1}{4}\) of the Price of those he parts with in Specie: What Number of the Books is he to deliver in lieu of A's Paper; what Cash will make good the Difference; and how much is B. the Gainer by this Affair?

Answer, They deal upon the Par for \(\frac{3}{4}\) of the Paper, for which B. delivers 1200 Pamphlets; by the other \(\frac{1}{4}\) or 400, rated at 7\(\frac{1}{2}\) d. which cost him \(\frac{1}{4}\) of 7\(\frac{1}{2}\) d. less, or 4\(\frac{1}{8}\) d. a Piece, he clears 3\(\frac{3}{4}\) d. \(\frac{1}{4}\) Book. 5!. 12 s. 6 d. in all.

A. B. and C. company A. put in his Share of the Stock for 5 Months, and laid claim to \frac{1}{3} of the Profits; B. put in his for 8 Months, C. advanced 400 L for 7 Months, and required on the Balance \frac{2}{3} of the Gain: The Stock of the other two Adventurers is fought?

Anfwer, A. 168 l. B. 70 l.

A young Hare fants 5 Rods before a Greyhound, and is not perceiv'd by him, till she has been up 34 Seconds; the scuds away at the Rate of 12 Miles an Hour, and the Dog, on view, makes after her, at the Rate of 20: How long will the Course hold, and what Ground will be run, beginning with the Outsetting of the Dog?

Answer, 58 1 Seconds, and 1702 ! Feet run.

A. and B. barter; A. has 140 lb. 11 oz. of Silver Twift, at 6 s. 4 d. the Ounce, which in Truck he rates at 7 s. 2 d. an Ounce, and allows a Discount, to have 4 of that in ready Specie. B. has Tea worth 9 s, 6 d. the Pound, which he rates at 11 s. 2 d. When they come to strike the Balance, A. receiv'd but 7 Cwt. 2 oz. 18 dr. of Tea: Pray what Discount did A. allow B. which of them had the Advantage, and how much in an Article of Trade thus circumstanced?

Aufwer, Discount 7 l. 15 s. 1 d. De Cent. B. the Advantage by 63 l. 19 s.

London changes with Amsterdam, on Par, at 33 \ s. Flem. Pound; Amsterdam changes on Middleburgh, at 2 P Cent. advance: How stands the Exchange between London and Middleburgh.

Answer, 34 s. Flem. Pound Sterl.

of Retterdam, remits to R. of Paris 2000 Crowns, at 91 d. Flem. & Crown, at double Usance, or 2 Months, and pays 3 & Cent. Brokerage, with Orders to remit him again the Value, at 93 d. Crown, allowing at the same time 3 & Cent. for Provision: What is gain'd & Cent. Annum, by a Remittance thus manag'd?

If I leave Exeter at 10 o'Clock on Tuesday Morning for London, and ride at the Rate of 2 Miles an Hour without Intermission; you set out of London for Exeter at 6 the same Evening, and ride 3 Miles an Hour constantly: The Question is, whereabout on the Road you and I shall meet, if the Distance of the two Cities be 130 Miles?

Answer, 61 4 Miles from Exeter.

A Refervoir for Water has 2 Cocks to supply it; by the first it may be fill'd alone in 44 Minutes; by the second, in just an Hour; and it hath a discharging Cock, by which it may, when full, be emptied in half an Hour: Now, suppose these 3 Cocks, by Accident, should all of them be left open, and the Water should chance to come in: What Time, supposing the Instead and Essue of the Water to be always alike, would this Cistern be in filling?

Answer, 2 \(\frac{3}{4}\) Hours.

M. fets out of London for Lincoln, at the very fame time that B. at Lincoln fets forward for London, diffant 100 Miles. At 8 Hours End they meet on the Road, and it then appear'd that A. had rid 2 in Miles an Hour more than B. At what Rate an Hour did each of them travel?

Answer, A. 7 1 Miles. B. 5.

Invoyce

# INVOYCE from HOLLAND.

95

Invoyce, of Factory, of 10 Ps. of Holland, 10 Ps. of Cambrick, 9 Ps. of Chentift Cloth, laden by me Jonas Diligent, aboard the Josiah, Thomas Cock, Master; for the proper Account and Ridgue of Henry Porter, Meschant in London, under the Mark of Margin: Contents, Costs and Charges, viz.

10 Ps. of	Holland,		4	-			*****	Gil Set Pe
N°.	Qt. 31 1		No.	Qt. 33 1	5 Ps. Qt		1000 Cont.	Le Commission on Sa
I.	.33 ‡		6.	32	Ditto		11 6	To Scorece 2 2 39' C
	32			34		-	Gil. Sti.	0 6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
to	31		to	31 1	In:	all 321 + Elle	s at I . It d	P. Ell.
	30 1			32 4				
5,		_	10					
9 Ps. of	Cambrick,	Qt. 12	4 Ells F	lem. at I	Gil. 3 Stiv.	F Ell. ——		
9 Ps. of	Ghenting,	Qt. 10	5 ½ Ells F	lem. at I	9 Stiv. # Ell.			

# CHARGES.



To Cuftom and Brokerage of	the Hollands, 3 Gil. Ps.	O.
To Charges in buying ————————————————————————————————————	Ghentings - 10 Mghod , am W to sagif or 3	ST
To Sledage and Boatage	All Tops Loss Meas of Pipe,	16
To Warehouse Room ——————————————————————————————————	ringles, at to Reas to Page,	31
	HOLES C. 21 L. TEN COUNTY	101

To my Commission, at 2 to Cent. 200 10. 5

What Sterl. shall Mr. Porter charge himself with, on Accompt of the said Invoyce, Exo. at 34 s. 6 d. for 20 s. Sterl.

Errors excepted,

Anfw. 1.79 . 9 . 9

From your humble Servant,

make reed that Part, which the Seilers can over Lon.

Jonas Diligent.

Au. L 58 . 12 Sterl.

# An Accompt of SALES.

To Portage of Ditto. To Commission on S. To Storage, 2 1 40	les, 5 & Cent			l. o.	17 . 6 16 . 9 9 . 1	s. a.
To Mr. E. Lucky his	Accompt current,	for the Nt. Pr	oceed, bad Debts	excepted. —	237	3 . 4
			Red NO I made	or Name to the	ı	. 4
	Invo	YCE from	n Portuc	AL.	Glienting, Q	b . I e

T	To Cost of 10 Pipes of Wine, bought of Anth. de Minas, at 16 M. Pipe,	- 160 . 000
	To Custom, at 1055 Reas & Pipe,	- 10 . 550
1	To Triming, &c. at 400 Reas,	- 4.000
	To Primage, at 60 Reas & Pipe,	- 0 . 600
Nº .	To Brokage, at 1 40 Cent.	- 0.876
A CALLED TO THE	To Commission, at 3 & Cent.	- 5. 280
1 to 10.	To Port-Charges of the faid Ship,	6 . 380
Ex. 40	Reas for 3 d.	7 35 35 37

Anfw. 1. 58 . 13 Sterl.

Leun your humble Servant,

P Nich. Strong, and Owen Jamyn.

[Primage and Average] are small Allowances made to the Master and Mariners of a Ship, at Lading, [Average] also the Contribution of Insurers, in Case of Loss; and sometimes the Assessment made upon the rest of the Lading, to make good that Part, which the Sailors cast over Board, in Stress of Weather, for the Security of the whole.

Contra

Errors excepted,

Bearing drags of expenses	Port-Royal in Jamaica, Anno. 174.
By Benjamin Eaton, fold him 2765 Ells of Ozer By 1112 Yards of blue Linens, fold ditto, at 7 By James Smart, for 39 Yards of Cloth fold him By Lawrence Nunke, fold him 40 Pair of Hofe, By Ditto. for 175 Ells of Bag-Hollar	nbrigs, Yards, at 8½ d. \$\psi \text{Yard}, \\ \frac{1}{2} d. \$\psi \text{Yard}, \\ \frac{1}{2} d. \$\psi \text{Yard}, \\ \text{n, at 15 s. } \$\psi \text{Yard}, \\ \text{at 7 s. 10 d. } \$\psi \text{Pair}, \\ \text{1.10 d. } \$\psi \tex
Error	Your humble Servant,  James Bradsbaw.
Invo	Y C E from SPAIN
To Dispatch 4 Ps. 8, is,  To Portage to the House, and	Boats,   Ry. Pl.
At 8 Ryals of Plate, \$\psi\$ Ps. of \$\frac{8}{8}\$, what does the whole amount to, Exo. at 52 d. Sterl. \$\psi\$ Ps. of \$\frac{8}{8}\$?  Answ. l. 420 . 10 . 10 \frac{1}{8}\$.	
[Brokerage] is an Allowance to the Broker, to [To Balance an Accompt] is to make the Total	bring Persons to buy or sell Goods, &c. 2 . 82

# INVOVCE from FRANCE.

Invoyce of & a Tun of Wine, and 20 Ps. of Prunes, thi Account of Valentine Austin, Merchant in London, man	Bourdeaux, the 20th of	King, Master, for the
To 2 Hhds of Graves Claret, at 50 Cr. Tun,	k d as in the brangin.	75.0.0
To 20 Ps. of Prunes, bought of Mr. Fart and Comp.	Cont. viz.	Tot James Callert, 101
Nº 1 1000 th, Nº 11 955 th.	Tr. 97 1 16. 4 Calk.	Linerate Naste
2 1000 12 960	and as charled by I be the are in a	Fr. Dillo. VI.
3 1000 13 960		
4 1005 14 955	W. > 20 Ot	
5 990	10 Qt.	
6. — 995 16. — 925 7. — 955 17. — 959		
8 1045 18 d8r Gr.	1 0 Y 10 Qt.	
9. — 1000 19. — 930 Tr.		***
10. 1000 20. 1040	liv. fol. den.	I we of one Bure
Advice; and no conlign'd to Mr. Abrabam Reidal.	17596 Nt. at 2 . 17 . 7 P Quinta	onemano J. Maharie
A.H.	RGES.	abank in Ambana i
To Custom and Brokerage of Wine, 20 To Charges in buying, 15 fel. dp. Tun,	ho. Ton Liv. 10.	6 6
To Sledage and Boatage of the faid Wine	G Landon C T	· · · ·
To Custom of Prunes lies A 12 de Ps	- A OS . (	0/10.
To Sledage and Boatage, o fol. de Ps	2 epge, at Lat Cart.	1.0
To the Ship Broker, for the Prunes, 10	fol. # Ton, 4 . 1	
To Average and Poor's Box, 27 fel.	Ton, Gr 13 . :	
What Sterl. is Mr. Auftin to charge himself	1	—— 133 · 4 · 1
with, on Account of this Factory, at 57 ½ d.	inc. of a what does	.or Livems slotte at
Cr. And what ought the Prines to weigh	To my Commission, at 2 1 4	
at London, the Kintal or 100 l. Bourdeaux, be-	fer 6 420 , 10 , 10 t.	1. 3
ing 110 at London?	the surprise to the first of the same	Liv.
4-6-1-9 0 0 0 0	Errors excepted.	1/2 Marie
Anfw. 1. 58 . 2 . 8 Gwt. 172 . 3 . 7	Amance to the Brober, to hing Perfor	eon Avaoujon.
oprove I read to the land to t	· Marie the sound see swing about Indiana	RECRE-

#### RECREATION XVI.

If during the Tide of Ebb, a Wherry should set out from Landon Westward, and at the same Instant, another should put off at Chertsey for London, taking the Distance by Water at 34 Miles: The Stream forwards this, and retards the other, say 2 ½ Miles an Hour: The Boats are equally laden, the Rowers equally good, and in the ordinary way of Working, in still Water, would proceed at the Rate of 5 Miles an Hour: The Question is, where in the River the two Boats would meet?

There are 2 Pieces of Clock-work, which running with a Fly, will each of them lower a Weight uniformly, to the depth of 35 Feet: The first Weight, or A. descends 13 of an Inch in an Hour; and when 'tis let down 12 Feet: The second, or B. is put off, and the Train of Wheels belonging to this Machine, is so order'd, that the Weights will be, in the same Level, 100 Inches before they come to the Bottom: the Velocity of B's Descent is requir'd?

Answer 2 1 Inches & Hour.

A. and B. truck, A. has 14 Cut. 81 lb. of Farnham Hops, at 2 l. 19 s. & Cut. but in Barter, insists on three Guineas. B. has Wine worth 6 s. & Gall, which he raises in Proportion to A's demand. On the Balance A. received but a Hogshead and a half of Wine: Pray what had he in ready Money.

Answer 16 l. 2 s. 1 d.

A Cistern holds 103 Gallons, and being brim full, has two Cocks to run off the Water; by the first of which, a three Gallon Pail, will be filled in 60 Seconds; by the other in 75 Seconds: In what time will this Cistern be emptied, thro' both these Apertures together, supposing the Essux of the Water all along the same?

Answer 19 Minutes, 4 & Seconds.

A. of Ansterdam, owes B. of Paris, 2000 Florins of current Specie, which he is to remit him, by Order, the Exchange 90 & d. Flem. de Banco, & Crown of 60 Solz Tournois, the Agio of the Bank being 4 & Cent. better than Specie; but when this was to be negotiated, the Exchange was down at 89 & d. & Crown, and the Agio, let us suppose, rais'd to 5 & Cent. What did B. get by this Turn of Affairs?

Sound, not interrupted, is by Experiments found uniformly to move about 1150 Feet in a Second of Time: How long then after firing the Warning-gun in Hyde-Park, may the same be heard at Highgate, taking the Distance at 5 3 Miles?

Answer 23 Seconds, 54 Thirds.

If I fee the Flash of a Piece of Ordnance, fir'd by a Vessel in Distress at Sea, which happens, we'll suppose, nearly at the Instant of its going off, and hear the Report a Minute and 3 Seconds afterwards: How far is she off, reck'ning for the Passage of Sound, as before?

Answer 13 Miles, 5 Furl. and 31 Poles, nearly.

The Quantity of Matter contain'd in all Spheres, is directly in Proportion to the Cubes of their Diameters; if then a Bullet of Cast-iron, 4 Inches Diameter, weighs experimentally 9 lb. what is the Difference of the Weight of one that is 13 \frac{1}{2} Inches, and another that is no more than 7 \frac{1}{2} Inches?

Answer About 287 lb.

If the Diameter of the Earth is 7970 Miles, of the Moon 2170 Miles, supposing them both to be exact Spheres, as they are not: what Comparison is there between them in Point of Magnitude?

Answer The Earth is 49,5446 times bigger than the Moon.

A. and B. on opposite Sides of a Wood 134 Toises about. They begin to go round it both the same way at the same Instant of Time, A. goes 11 Toises in 2 Minutes, and B. 17 in 3: The Question is how many times will they surround this Wood before the nimbler overtakes the slower?

There are three Orders of Leavers, or three Varieties, wherein Weights, Props and Moving-Powers may be differently applied to the Vectis, or inflexible Bar, in order to effect Mechanical Operations in a convenient Manner. The first hath the Power placed at one of its Ends, the Weight to be raised is put at the other, and the Prop is somewhere between. A Leaver of the second Order, has the Power also at one End, the Prop is fixed directly at the other, and the Weight somewhere between them. Where the Prop is planted at one End of the Bar, the Weight at the other, and the Moving-Force is applied somewhere between, 'tis then a Leaver of the third Order.

If a Leaver, 40 effective Inches long, will by a certain Power, thrown successively thereon, in 13 Hours, raise a Weight 104 Foot: In what time will 2 other Leavers, each 18 effective Inches long, raise an equal Weight 73

Foot; the Force of streight Leavers being in a direct Proportion of their Lengths?

Answer 10 Hours 8 1 Min.

A Leaver of the first Order equally divided, and justly poised, is the Balance-Beam: To this, if a Power be applied at one End, 'twill always move an equal Weight at the other. In like manner, a Leaver equally poised, and unequally divided, having a Power applied at one End, will move a Weight at the other which will be reciprocally proportionable to the Distances of those Ends from the Fulcrum, or Point supported: Of this kind is the Steel-yard. What Weight then hung on, at 70 Inches distance from the Prop of this Machine, will equipoise a Hogshead of Tobacco of  $9\frac{1}{2}$  Cut. freely suspended at two Inches distance on the contrary Side?

Aufwer 30 To lb.

Again: What Weight will a Fellow be able to raise, who presses with the Force of a Hundred and a half, on the End of an equipoised Hand-spike 100 Inches long, which is to meet with a convenient Prop, exactly 7 ½ Inches above the nether End of that Machine?

Answer 2072 lb.

In giving Directions for making an Italian Chair, the Shafts whereof were fettled at 11 Foot, between the Axles Tree, whereon the principal Bearing is, and the Back-band, by Means of which the Weight is partly thrown upon the Horse; a Dispute arose whereabout on the Shafts the Centre of the Body of this Machine should be fix'd. The Coach-Maker advised this to be done at 30 Inches from the Axle: Others were of Opinion, that at 24 'twou'd be a sufficient Incumbrance to the Horse. Now, admitting the two Passengers, with their Baggage, ordinarily to weigh 2 Cwt. a-piece, and the Body of the Vehicle to be about 70 lb, more: Pray what will the Beast, in both those Cases, be made to bear, more than the Harness; observing only that these Shafts are no other than Leavers of the second Order, and that the Weight to be supported will always be reciprocally as the Distance of the Centre of the Machine's Gravity shall be from the Prop and Moving Power?

A Person with a Hand-spike roo Inches long, is said, in the last Proposition save one, by bearing on the upper End on't, with the Force of 168 lb. to sustain 2072 lb. at the other, a convenient Prop being pitched 7½ Inches above it. If now we change the Nature of the Leaver, and bearing on the Pavement with the nether End, we suppose the Weight to be moved, presses at 7½ Inches, or where the Prop in the other Case was fixed, and the Hand lifting at the upper End with the Force of 168 lb. as before; the Question is, what Difference there will be

In point of Power, between these different Applications of the same Leaver?

Answer, The Power gain'd in either Case will be as 37 to 3, exactly the same. A Person is capable indeed generally of listing more than his own Weight: The latter Application seems to be the more advantageous on that Account; but when equal Forces are applied to Leavers of the first two Orders, cateris paribus, equal Effects will be produced.

A Water-wheel turns a Crank, working 3 Pumps, fixed just 6 Foot from the Joint or Pin, by which their serveral Leavers, each 9 Foot in Length, are fasten'd, for sake of the intended Motion, at one End; the Suckers of the Pumps being work'd by the other, shews them to be Leavers of the third Order. Now, I wou'd know what the Length of the Stroke in each of the Barrels will be, if the Crank be made to play just 9 Inches round its Centre?

Once more: With what Force ought that Water-wheel to be driven, which, circumflanced as above, raises 3 Cubic Foot of Water at every Revolution of the Wheel, each experimentally weighing 62 \(\frac{1}{2}\) lb. Avoir dupoiz, the Friction included?

Answer, Without forcing it any higher, the Lift must be  $281\frac{1}{2}lb$ .

A Weight of  $1\frac{1}{2}lb$  laid on the Shoulder of a Man, is no greater a Burthen to him, than its absolute Weight, or 24 Ounces: What difference will he feel, between the said Weight applied, near his Elbow, at 12 Inches from the Shoulder, and in the Palm of his Hand, 28 Inches therefrom; and how much must his Muscles draw to support it at Right Angles; that is, having his Arm extended right out?

Answer 24 lb. Avoirdupoiz.

#### INVOYCE from ITALY.

Factory of the Cost and Charges of one hundred Barrels of Anchovies, ship'd on Board the Tortois, Capt. James Snat, for Accompt of Mr. Samuel Tanqueray, of London, Merchant; and consign'd himself, under Mark Margin.

To prime Coft of faid 100 Barrels of Anchovies, at Ps. \$\frac{3}{4}\$ Bar. 2\frac{3}{4}\$

To Portage and Ware-house,

To Jeffing with Cooper's Pains,

To Ware-house Room and Leviation,

To Portage and Boatage aboard,

To Brokerage, \$\frac{1}{4}\$ \$\frac{10}{4}\$ Cent.

To Primage,

To my Provision, 3 \$\frac{1}{4}\$ Cent.

To my Provision, 3 \$\frac{1}{4}\$ Cent.

Livern, Nov. 26. 174

Liv.

At 115 Solz & Ps. of \$, for how much Sterl. may Mr. Tanqueray credit his Factor, Exo at 4 s. 6 d. Sterl. Ps. of \$?

Errors Excepted,

Answ. 1. 69 . 13 . 11

# Emanuel Lutzena.

[ Italy changes upon the Dollar; containing at Leghorn 6 Livres; at Genoa but 5.]

# A LETTER of ADVICE; to Mess. Edw. Martin and Tho. Harvey.

THIS is to advise you, that I have ship'd on Board the Marigold, John Getall, Master; 10 Rolls of Oznabrigs; 25 Barrels of Mum; and 16 Cwt. of Latten Wire, for your proper Accompt and Risque; amounting to, as \$\psi\$ inclosed Invoyce, 5833 Marks Lubeck, at 16 s. Lubeck each Mark. Ex°. at 152 s. Lubeck, for 20 s. Sterl. from,

Your humble Servant,

This Confignment makes in Sterl. 1. 614

James Jermin.

Invoyce,

Invoyce, or Factory of 6 Hhds. of Tobacco; and 3 Bales of Woollen Cloth, ship'd on board the Streights-Merchant, Theophilus Throughpaid Master, for the proper Accompt and Risque of Nicol. Neapolitano, Merchant in Leghorn, and consign'd himself, mark'd and number'd as under. Contents, Costs, and Charges, viz.

Cwt. qr. lb. qr. lb. Cwt. qr. lb. qr. qr. lb. qr. lb. qr. qr. qr. lb. qr. qr. qr. qr. lb. qr. qr. qr. lb. qr. qr. qr. lb. qr. qr. qr. lb. qr. qr. qr. qr. lb. qr. qr. qr. qr. qr. qr. qr. qr. qr. qr	Best bright Tobacco, 6 Hhds, viz						
No 1. Qt. 2 · 3 · 7 Tr. 2 · 14 No 4. Qt. 4 · 1 · 27 Tr. 3 · 4 2 · - 3 · 1 · 10 · - 2 · 20 · 5 · - 2 · 2 · 20 · - 2 · 10 3 · - 3 · 3 · 0 · - 2 · 0 · 6 · - 5 · 2 · 10 · - 3 · 12  9 · 3 · 17 · 1 · 3 · 6  12 · 3 · 1  Out. 18 · 2 · 14 Suttle, 2086 Tr. Tret, 80  B. 2006 Nt. at 7 ½ d. Pound.  L. Cloth, 3 Bales, viz.  No 27, 28, 29. Qt. each ro fhort Cloths, at 12 l. P Cloth.  Charges, viz.  To Coff of 3 Wrapers,  Brokerage, at ½ P Cent.  Storage,  Cartage and Porterage,  To my Commission, at 2½ P Cent.			to mark freque	Cant or 1h			Prima Pil
2. — 3 · 1 · 10 — 2 · 20 5 . — 2 · 2 · 20 — 2 · 10 3 · 3 · 3 · 0 — 2 · 0 · 6 · — 5 · 2 · 10 — 3 · 12 9 · 3 · 17 · 1 · 3 · 6     12 · 3 · 1   2 · 0 · 26 12 · 3 · 1			No A O		Tr 3	Morehant, J.	
3. — 3. 3. 0 — 2. 0. 6. — 5. 2. 10 — 3. 12  9. 3. 17					3.0	to my fall of 7	
9 . 3 . 17 1 . 3 . 6 12 . 3 . 1 2 . 0 . 26 12 . 3 . 1			-	A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.			
Total, Gr. 22 . 2 . 18  Tot. Tr. Cwt. 4 . 0 . 4  Cwt. 18 . 2 . 14 Suttle, 2086 Tr. Tret, 80  b. 2006 Nt. at 7 ½ d. & Pound	3, 3, 3,		1	John Marie 10	TOTAL SPENS	dO bas how of	
Total, Gr. 22 . 2 . 18  Tot. Tr. Cwt. 4 . 0 . 4  Cwt. 18 . 2 . 14 Suttle, 2086 Tr. Tret, 80  b. 2006 Nt. at 7 ½ d. & Pound	9 . 3 . 17 . 1	1 . 2 . 6	A TOTAL TERM	12 . 3 . I	2 . 0 . 26	i o Cole and La	.OI .mis
Total, Gr. 22 . 2 . 18    4 . 0 . 4   16.     Cwt. 18 . 2 . 14   Suttle, 2086     Tr.   Tret, 80     16. 2006   Nt. at 7 ½ d. & Pound.     17.   Pound.   18. 2 . 18     18. 2 . 19   Pound.   19     18. 2 . 19   Pound.   19     19. 2006   Nt. at 7 ½ d. & Pound.   19     19. 2006   Nt				STREET SHEET TON	X 1 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Cwt. 18 . 2 . 14   Suttle, 2086   Tr.   Tret, 80	8 . 4 . 8; 8		- tumosii/	was ni silwa s		to be against a t	
Cwt. 18 . 2 . 14 Suttle, 2086 Tr.	Total, Gr. 22 . 2 . 18		Lafrancia	Tot. Tr. Cwt.	4.0.4	LO Dancico uca	
Civit. 18 . 2 . 14 Suttle, 2086 Tr. Tret, 80  1b. 2006 Nt. at 7 ½ d. & Pound.  1. Cloth, 3 Bales, viz.  N° 27, 28, 29. Qt. each ro fhort Cloths, at 12 l. & Cloth.  Charges, viz.  To Cuftom of all  To Coft of 3 Wrapers,  Brokerage, at ½ & Cent.  Storage,  Cartage and Porterage,  To my Commission, at 2½ & Cent.  To my Commission, at 2½ & Cent.  To my Commission, at 2½ & Cent.	E . O. 8ps. 4.0. 4.00			-			
Tr. — Tret, 80  1b. 2006 Nt. at 7½d. Pound. — 1.  Cloth, 3 Bales, viz.  N° 27, 28, 29. Qt. each ro short Cloths, at 12 l. Cloth. — 1.  Charges, viz.  To Custom of all — 1. 53 · 18 · 6  To Cost of 3 Wrapers, — 0 · 10 · 6  Brokerage, at ½ P Cent. — 2 · 2 · 3  Storage, — 1 · 0 · 0  Cartage and Porterage, — 0 · 10 · 6  To my Commission, at 2½ P Cent. 12 · 0 · 4	Marie and American and American						
lb. 2006 Nt. at $7\frac{1}{2}d$ . Pound.  Cloth, 3 Bales, viz.  N° 27, 28, 29. Qt. each ro short Cloths, at 12 l. P Cloth.  Charges, viz.  To Custom of all  To Cost of 3 Wrapers,  Brokerage, at $\frac{1}{2}$ P Cent.  Storage,  Cartage and Porterage,  To my Commission, at $2\frac{1}{2}$ P Cent. 12.0.4							
Cloth, 3 Bales, viz.  N° 27, 28, 29. Qt. each ro short Cloths, at 12 l. \$\frac{1}{2}\$ Cloth.  Charges, viz.  To Custom of all  To Cost of 3 Wrapers,  Brokerage, at \(\frac{1}{2}\) \$\frac{1}{2}\$ Cent.  Storage,  Cartage and Porterage,  To my Commission, at 2\(\frac{1}{2}\) \$\frac{1}{2}\$ Cent.  To my Commission, at 2\(\frac{1}{2}\) \$\frac{1}{2}\$ Cent.	Tr	Tret, 80				•	
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N° 27, 28, 29. Qt. each ro short Cloths, at 12 l. & Cloth.  Charges, viz.  To Custom of all  To Cost of 3 Wrapers,  Brokerage, at ½ & Cent.  Storage,  Cartage and Porterage,  To my Commission, at 2½ & Cent.			10.	).			ARP
N° 27, 28, 29. Qt. each ro short Cloths, at 12 l. & Cloth.  Charges, viz.  To Custom of all  To Cost of 3 Wrapers,  Brokerage, at ½ & Cent.  Storage,  Cartage and Porterage,  To my Commission, at 2½ & Cent.	Cloth, 3 Bales, viz.	A die , sie i	2.2.3	7 .JW	Barrely	To Railing, 19	.05.
Charges, viz.  To Cuftom of all  To Coft of 3 Wrapers,  Brokerage, at ½ \$\psi Cent\$.  Storage,  Cartage and Porterage,  To my Commission, at 2½ \$\psi Cent\$.  To my Commission, at 2½ \$\psi Cent\$.	N° 27, 28, 29. Qt. each ro 1	hort Cloths,	at 12 1. #	Cloth.	- close	T.I.T.	.200 .1171
To Cuftom of all  To Coft of 3 Wrapers,  Brokerage, at ½ \$\psi Cent\$.  Storage,  Cartage and Porterage,  To my Commission, at 2½ \$\psi Cent\$.  To my Commission, at 2½ \$\psi Cent\$.	Charges, viz.		1. 2 . 12		bds.	To Sugar, 3 H	
Brokerage, at ½ \$\psi \cent \cdot \cdot \cent \cdot \c	To Cuftom of	all	0 .1 . ;	1 constant	1.	53 . 18 . 6	.C.I Ma ?
Storage,  Cartage and Porterage,  To my Commission, at 2 to Cent. 12.0.4	To Coft of 3	Wrapers, -	71.1.0	I win and washing	H	0.10.6	.II. Jak
Cartage and Porterage,  To my Commission, at 2 to Cent. 12.0.4		1 W Cent	5 . 2 . 22	I topped to the same of the same	1 ,	2 3	A S.
To my Commission, at 2 # Cent. 12.0.4						1.0.0	
to the state of th	Cartage and Po	orterage, —			:	0.10.6	4
to the state of th				- /		101.0	
to the state of th	Samuelton lent on timbleson	Til - Litera	water Courts de	To my Con	nmission, at	Cent. 1	2.0.4
	which the Lineway on Secretary of the	and Intelliger.	in the trans	into or Goods or	Variable to Wall	Land 19 To	A. A. (10)
aus Deo, London, Aug. 4. 174	Laus Deo, London, Aug. 4. 174	The same	f mest man	no traces la sem	Errors ex	cepted, l.	No of the last

# ACCOMPTS CURRENT.

#### diol inflooW to solet a for Bourdeaux, Anno 174 .

Mr. Valentine Austin,	the pro-c Accom	Correction Although Correction	D'.	. Sol.	Den.
Oct. 20. To Cost and Charges of 20 Ps. of Promote Merchant, John King, Master, as To my Bill of 70 Cr. 5 Sol. remitted	Invoyce fent -	the grade	Canary- t 55 \(\frac{1}{4}\) d.	2 . 13	d flott
Dec. 7. To Cost and Charges of 10 Ps. of B Jan. 10. To Cost and Charges of one Tierce	of White-Wine, 1	hward Shaw, as the Inv Hhd. of Vinegar, thip	oyce, —129 d on the		: 6
True-Love of Yarmouth, Nich. Ros To Postage of Letters to this Day, - Feb. 16. To Balance transfer'd to your Credit	The same of the sa	1	1	4 · 15 1 · 16 8 · 4	. 0
		Errors excepted,		3 . 16	. 3
		OS Just 1	18. 2		
Apr. 5. To Figs, 12 Barrels,	Cwt. qr. lb wt. 72 · 2 · 3 - 9 · 3 · 14 - 31 · 2 · 12	Nt. at 1. 1 . 16	. 6	. B.	Closh N
Jun. 16. To Currans, 3 Butts, Jul. 11. To Tabacco, 5 Hhds.	64.1.0	I . 16	8-	1	
0.01.0		ge, and Porterage.	1.	-	

[To Confign Goods] Is when a Merchant, or Factor, sends Goods directed to his Correspondent or Imployer.

[An Accompt of Sales] Specifies the Sale of Goods received from your Imployer, with the Charges on Receipt, and their Net Proceed.

#### Bourdeaux, Anno 174 .

Oct. 30. By my Bill on him in Favour of Mr. Francis Amot, of 312 Cr.	Liv. Sol. Den.
Dec. 14. By his Remittance at 10 Days Sight, of 270 Cr. on Medieurs Per 15. By his Remittance, at eight Days Sight, 185 Cr. on Mr. Ric negotiated at † Cent. loss with Mr. Strange,	bard Lee, of Rochel,
The 19th of Feb. 174 .	Liv. 2298 . 16 . 0
By your humble Servar	
Degree of Angle and Hear, the best of the Land and Hear, and Hear, as a second	
to the Source of the to Light and Loss in our broken appointed the Sun to Carners, and remove the transaction of the form of the form of the second of the form of the Solar Information of the form of the Solar Information of the form of the second of the	at a Million of Ivines from what
May 16. By ditto, for a Bill of 419 Gilders, Exchange at 34s. 6d. Fl. —  19. By a Bill of 957 Liv. 10 Sol. Exchange, at 57 d. 4 Crown.	45 . 16 . 10
by springer due to the,	104 · 15 · 7 76 · 10 · 0 107 · 2 · 4
r at Denlity; now the Moon's Denlity or Compalinels, is to that of the tion then is there is the Earth, and that the there is the Earth, and that we There is to the Moon, and that	Libe loss perces a flody in the great  Laurh, as the los tool Ivhan Pappa  In the Piconi

[An Accompt Current] is that, wherein your Correspondent is made D. for whatever he ought to make good or allow, and C. for what ought to be allowed or made good to him; and is an Accompt that sums up the Heads of your Dealing with him, and decides how Affairs stand betwint you, to the Time of its being made out.

#### RECREATION XVII.

IT. is conceived, that the Effects or Degrees of Light, Heat, and Attraction, are reciprocally proportional to the Squares of their Diffances from the Centre, whence they are propagated: Supposing then, the Earth to be 81000000 Miles diffant from the Sun, I would know at what Diffance from him another Body must be plac'd, so as to receive Light and Heat, double to that of the Earth?

Answer, 57275650 Miles nearly.

Suppose, with Dr. Keil, the Distance of the Sun to be from us, 115 of his Diameters: How much hotter is it then at the Surface of the Sun, than under our Equator?

The Distance between the Earth and Sun is accounted \$1000000 of Miles; the Distance between Jupiter and the Sun 424000000 of Miles: The Degree of Light and Heat, received by Jupiter, compared with that of the Earth, is required?

Answer, 16561/16, or about 17 of the Earth's Light and Heat.

Mercury, the nearest of the Planets to the Source of Heat, Light and Life, in our System appointed, the Sun is about 32 Millions of Miles from him; Saturn, the remotest of the Planets, is usually distant about 777 Millions of Miles: What Comparison or Proportion is there between the Solar Influences on these two Bodies?

Answer, As 1024 to 603729.

A certain Body on the Surface of the Earth, weighs 112 lb. the Question is, whither this Body must be carried, that it may weigh but 10 lb.

Answer, To 3,3466 Semi-diameters from the Earth's Centre.

If a Body weighs 16 Ounces upon the Surface of the Earth, what will its Weight be 50 Miles above it, taking the Earth's Diameter at 7970 English Miles?

Answer, 15 Ounces, 9 Dr. 452 503.

The less porous a Body is, the greater its Density; now the Moon's Density or Compactness, is to that of the Earth, as 123 to 100: What Proportion then is there between the Quantity of Matter in the Earth, and that in the Moon?

Answer, There is 40 117 times more Matter in the Earth, than in the Moon.

The Cubic Inch of Marble is 1,5688 Oz. Avoirdupoiz; what Difference is there, in point of Weight, between a Figure, containing a folid Foot and half of Stone, and another of equal Dimensions in Brass, 4,63 Ounces whereof make a Cubic Inch?

RECRE

Anfwer, Cwt. 4 : 1 : 19

The Sum Total of any Rank of Numbers equally increasing, is found by multiplying the Sum of the first and last, by half the Number of Terms.

How many Strokes do the Clocks of Venice (which go on to 24 o'Clock) strike in the Compass of a Natural Day?

Answer, 300.

The Length of my Garden is 94 Feet; now if Eggs be laid along the Pavement a Foot asunder, and be fetch'd up fingly to a Basket, remov'd one Foot from the last; how much Ground must be traverse that does it?

Answer, I Mile, 5 Furl. 21 Pol. 3½ Feet.

By multiplying 16 Feet, the Descent of an heavy Body, near the Earth's Surface, in one Second of Time, by as many of the odd Numbers, beginning from Unity, as there are Seconds in any given Time, viz. by I for the first; 3 for the second; 5 for the third; 7 for the sourth, and so on; the Sum total will give the Space it has pass'd, any where on this Side the Centre of the Earth, in that Time: Suppose a Stone let go into an Abys, should be stopp'd at the End of the 11th Second, after its Delivery, what Space would it have gone thro'?

It may also be prov'd, that the Velocities acquir'd by Bodies in falling, are in Proportion to the Squares of the Times in which they fall. For Instance, let go 3 Bullets together; stop the first at one Second, it will have pass'd 16 Feet as before: Stop the next at the End of the second, it will have fallen four times 16 Feet, or 64; and stop the last at the third Second, and the Distance will be 144, or 9 times 16; and so forward.

What then is the Difference between the Depth of two Wells, into each of which, should a Stone be drop'd at the same Instant, one will meet with the Bottom at 6 Seconds, the other at 10?

Answer, Difference, 1024 Feet.

If a Stone be 19 2 Seconds, in descending from the Top of a Precipice to the Bottom; what is the Height of the same, according to the foregoing Canon?

Answer, 1014 Fathoms.

On the contrary; to determine in what Time a heavy Body will, by Vertue of its natural Tendency towards the Centre of the Earth, reach any Place affign'd, on this Side of the fame; fay, as 16 Feet are to the Square of one Second or 1, so is any given Distance, or to the Square of the Seconds requir'd.

In what Time will a Musquet-Ball, drop'd from the Top of Salisbury Steeple, said to be 400 Feet high, be at

the Bottom?

Answer, 5 Seconds.

If a Hole could be bor'd through to the Centre of the Earth, and the half Diameter of this Planet was prov'd to be 3923 times 5000 Feet; in what Time, after the Delivery of a heavy Body on its Surface, would it arrive at its Centre?

Answer, 18 Min. 27 Sec. and 1 nearly.

The Length of Pendulums are to one another reciprocally, as the Squares of the Number of their Vibrations, made in the same Space of Time. If then a Pendulum, 39,2 Inches long, in our Latitude, swings Seconds, or 60 times in a Minute; what Difference is there between the Length of one, that vibrates half Seconds, or 120 times in a Minute; and another, that swings double Seconds, or 30 times a Minute?

Again; what Difference will there be in the Number of Vibrations, made by a Pendulum of 6 Inches long, and another of 12 Inches long, in an Hour's Time?

Observ'd, that while a Stone was descending to measure the Depth of a Well, a String and Plumet (that from the Point of Suspension, or the Place where 'twas held, to the Centre of Oscillation, or that Part of the Bob, which being divided by a circular Line struck, from the Centre abovesaid, would divide it into two Parts of equal Weight) measur'd just 18 Inches; had made 8 Vibrations: Pray, what was the Depth, allowing (1150 Feet \$ Second) for the Return of Sound to the Ear?

The Sum Total of any Rank of Numbers, not equally progressive, but multiply'd from first to last, by one common Factor, may be universally found, by multiplying the last of the Terms, by the common Multiplier, and from the Product, deducting the first Term, divide the Remainder by the said Multiplier less 1; the Quotient will be the Total fought.

On New Year's Day, a Gentleman married, and receiv'd of his Father-in-Law a Guinea, on Condition, that he was to have a Present, on the first Day of every Month, for the first Year, which should be double still to what he had the Month before: What was the Lady's Portion?

One at a Country Fair had a mind to a String of 20 fine Horses; but not caring to take them at 20 Guineas a-head, the Jockey consented, that he should, if he thought good, pay but a single Farthing for the first, doubling it only to the 19th, and he'd give him the 20th into the Bargain: This being presently accepted, how were they fold?

What is an Annuity, to expire in a dozen Years, worth, discompting 10 \$\psi\$ Cent. \$\psi\$ Annum, by compound Interest?

What ought a Man to give down, in ready Money, for the Reversion of 1000 l. a Year, to continue 20 Years on a Lease, which cannot commence till five Years are at an End, allowing the Purchaser Compound Interest at Answer, 8571 l.: 0: 7½ d.

The FORMS of certain LAW PRECEDENTS, which more frequently occur in the Way of Business.

# An English BOND, to which may be put any CONDITION.

K NOW all Men by these Presents, That I [Benjamin Bidfair of Stepney, in the County of Middlesex, Rope-Maker] am held and firmly bound to [William Wellmeant of Sutton-Colefield, in the County of Warwick, Esq;] in one hundred Pounds, lawful Money of Great Britain; to be paid to the said [William Wellmeant] his certain Attorney, Executors or Administrators: For the Payment whereof, I bind my self, my Heirs, Executors and Administrators, firmly by these Presents: Seal'd with my Seal. Dated this [first Day of September] in the [seventh] Year of the Reign of our Sovereign Lord [George the Second] by the Grace of God, of Great Britain, France, and Ireland [King] Defender of the Faith, and so forth. And in the Year of our Lord [one Thousand seven Hundred and Forty]

## A CONDITION for Money lent.

THE Condition of this Obligation is such, that if the above bounden [Benjamin Bidfair] his Heirs, Executors or Administrators, do well and truly pay, or cause to be paid, unto the above-mention'd [William Wellmeant] his Executors, Administrators, or Assigns, the full Sum of [fifty Pounds] of good and lawful Money of Great-Britain, on the [first Day of November] next ensuing the Date hereof, with lawful Interest for the same; then this Obligation to be void, or else to remain in full Force.

Seal'd and Deliver'd (being first legally Stamp'd) in Presence of A. B. C. D.

Benjamin Bidfair, (L. S.)

When a Bond is given, in Consideration of the Value receiv'd, the Obligation is always to be made for double the Value in the Condition.

What is to be varied and made agreeable to Circumstances, is in these Precedents inserted between [ ] and in a different Character.

The Dates of legal Instruments, Sums of Money, and the Number of all other Things specified in them, must be written in Words at Length, never in Figures, for fear of Alterations. The Instruments themselves, as well as all Proceedings at Law, must be written wholly in English, according to a late Act of Parliament.

#### A CONDITION to stand to the AWARD of Arbitrators.

THE Condition of this Obligation is fuch, That if the above bounden [Benjamin Bidfair of London, Merchant] his Heirs, Executors, and Administrators, and every of them, do and shall in all Things, well and truly stand to, obey, abide by, perform, fulfil, and keep the Award, Order, Arbitrament, final End and Determination of [Anthony Aimwell, and Michael Makepeace of London, Merchants] Arbitrators indifferently nam'd, elected, and chosen, as well on the Part and Behalf of the above bounden [Benjamin Bidfair] as of the above named [William Wellmeant) to arbitrate, award, order, judge and determine of, and concerning all manner of Action and Actions, Caufe and Caufes of Actions, Suits, Bills, Bonds, Specialties, Judgments, Executions, Extents, Accompts, Debts, Dues, Sum and Sums of Money, Controversies, Trespasses, Damages and Demands whatsoever; at any time or times heretofore had, made, moved, brought, commenced, fued, profecuted, done, fuffered, committed, or depending by or between the faid Parties, fo as the Award may be made and given up in Writing, under their Hands and Seals, ready to be deliver'd to the faid Parties, on or before the [first of February next ensuing the Date hereof.] But if the faid Arbitrators do not make fuch their Award, of and concerning the Premises, by the time aforesaid; that then, if the said [Benjamin Bidsair] his Heirs, Executors and Administrators, for his and their Parts and Behalf, do in all Things, well and truly stand to, obey, abide by, perform, fulfil, and keep the Award, Order, Arbitrament, Umpirage, final End and Determination of [Ferdinando Finishal of London, Esq.] Umpire indifferently chosen between the faid Parties, to end the faid Matter and Differences, so as the faid Umpire do make his Award or Umpirage of, and concerning the Premises, and deliver the same in Writing, under his Hand and Seal, to the faid Parties, on or before the [fixth Day of February] next, ensuing the Date abovesaid: Then this Obligation to be void, or elfe to remain in full Force.

Seal'd and Deliver'd (being legally Stamp'd) in the Presence of,

Benjamin Bidfair, (L. S.)

A. B. C. D.

Both Parties are, in this Case, to be mutually bound, and if there be no Umpire admitted, the latter Part of the Condition, beginning [But if the said Arbritrators] is to be omitted.

A Clause ought to be added to this Instrument, and sign'd by either Party, directing such Award to be enter'd, and given as a Plea, in either of the King's Courts in Westminster, in order to corroborate and render it final to them.

## The FORM of an UMPIRAGE of Award.

To all People, to whom this present Writing shall come: I [Ferdinando Finishal of London, Esq;] Umpire indifferently chosen between [Benjamin Bidfair and William Welmeant of London, Merchants] send Greeting. Now know ye, that I the said Ferdinando Finishal, having deliberately heard, consider'd, and understood the Griefs, Allegations, and Proofs of both the said Parties; and being willing, as much as in me lieth, to set the said Parties at Unity and good Accord, do by these Presents, Arbitrate, Award, Order, Deem, Decree and Judge, that the said [Benjamin Bidfair] his Executors, Administrators or Assigns, do and shall, well and truly pay, or cause to be paid, unto the said [William Welmeant] his Executors, Administrators or Assigns, the sull Sum of some bundred Pounds] of lawful Money of Great-Britain, on the strong of March] next, ensuing the Date of these Presents; and that upon Payment thereof, the said [Benjamin Bidfair and William Welmeant] shall, at their own proper Costs and Charges, seal, subscribe, and as their several Acts and Deeds, deliver each to the other a general Release in Writing, of all Matters, Actions, Suits, Causes of Actions, Bonds, Bills, Covenants, Controversies and Demands whatsoever; from the Beginning of the World, to the spring subscreed, I have hereunto set my Hand and Seal, the source Day of February, in the Year of our Lord, one Thousand seven Hundred and Forty.

Seal'd and Deliver'd (being duly Stamp'd) in Presence of,

E. F.

Ferdinando Finishal, (L. S.)

#### A LETTER of LICENCE to a Debtor.

TO all People, to whom this present Writing shall come: We whose Names are here under subscrib'd, and Seals affix'd, Creditors of [A. B. of London, Merchant] send Greeting. Whereas, the said [A. B.] on the Day of the Date of these Presents, is indebted unto us severally, in divers considerable Sums of Money; which at present he is not able to satisfy unto us, without Respite and Time to be given him, for the Payment thereof: Know ye therefore, That we the said Creditors, for divers good Causes and Considerations, us thereunto moving, have given and granted, and by these Presents, do give and grant unto the said [A. B.] our sure and safe Conduct, and free Licence.

Licence, that he the faid [A. B.] shall, and may fafely come and go, and refort unto us, and every one of us, his faid Creditors, to compound and take Order with us, and every one of us, for all and every of our faid Debts, and may go about any other Business, to any other Person or Persons whatsoever, without any Trouble, Suit, Arreft. Attachment, or other Molestation to be offer'd or done unto him, the faid [A. B.] his Wares, Goods. Moneys, or other Merchandizes whatfoever, by us or any of us, or by the Heirs, Executors, Administrators, Partners or Affigns of us or any of us, or by our or any of our Means and Procurement, to be fought or procur'd to be done, from the Day of the Date hereof, unto the full End and Term of [ one whole Year ] next enfuing. And we the faid Creditors, whose Names are here under-written, do hereby Covenant and Grant, and every one of us for his own Part, his Executors and Administrators, covenanteth and granteth, to and with the faid [A. B.] that if any Trouble, Wrong, Damage or Injury, shall be done unto him the faid [A. B.] either in his Body. Goods or Chattels, or any of them, within the faid Term of [ one Year ] next coming after the Date hereof, by us or any of us, his faid Creditors, or by any other Person or Persons, by or through the Procurement, Consent, or Knowledge of us or any of us, contrary to the true Intent and Meaning of this our present Writing of safe Conduct; that then the faid [A. B.] by Vertue of these Presents, shall be discharg'd and acquitted for ever, towards and against him and them, of us, his and their Heirs, Executors, Administrators, Partners or Assigns, and every one of them, by whom, and by whose Means, he shall be arrested, troubled and attached, or damnify'd, of all manner of Actions, Suits, Quarrels, Debts and Demands, either in Law or Equity, from the Beginning of the World, to the Day of the Date hereof: In witness whereof, we have hereunto set our Hands and Seals the [ fourth Day of May, in the Year of our LORD, one Thousand seven Hundred and Forty

to his Cicliman for the see good Cabies and Confident one, as thereupto may see his a con-

Seal'd and Deliver'd (being first duly Stamp'd) in Prefence of,

	R. S. W. X.	,	A. B. C. D.	(L. S.)	R. D. (L. S.) P. Q. (L. S.) E. L. (L. S.)
	to a Debtor.	ROMBOLL	E. F. G. H.	(L. S.)	E. L. (L. S.) M. T. (L. S.)
ter fablicabil, and feals of [M. E.] on the lost of	de Names are here un	come: We who	7. K. 8. P.	(L. S.)	Y. Z. (L. S.) W. N. (L. S.)
	10.00mm   10.00	THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	TANTON OF THE PARTY OF THE PART	of The Company of the Land of the Company of the Co	h   10 erotifierd %
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## RECREATION XVIII.

i. If the Quantities of Matter in any two or more Bodies, put in Motion, be equal, the Forces wherewith they are moved will be in Proportion to their Velocities.

2. If the Velocities of these Bodies be equal, their Forces will be directly as the Quantities of Matter contained

in them.

3. If both the Quantities of Matter and the Velocities be unequal, the Forces with which Bodies are mov'd, will be in a Proportion compounded of the Quantities of Matter they contain, and of the Velocities wherewith they move.

The Battering-Ram of Vespasian, weigh'd, suppose 100000 lb. and was mov'd, let us admit, with such a Velocity, by Strength of Hands, as to pass through 20 Feet in one second of Time, and this was found sufficient to demolish the Walls of Jerusalem; with what Velocity must a Bullet, that weighs but 30 lb. be mov'd, in order to do the same Execution?

There are two Bodies, the one contains 25 times the Matter of the other (or is 25 times heavier) but the leffer moves with 1000 times the Swiftness of the greater; in what Proportion are the Forces by which they are mov'd?

Answer, The less is mov'd with a Force 40 times greater than the other. In comparing the Motions of Bodies, the Ratio, or Proportion between their Velocities, will be compounded of the direct Ratio of the Forces whetewith they are mov'd, and the reciprocal of the Quantities of Matter they con-

A Body, weighing 20 lb. is impell'd by fuch a Force as to fend it 100 Feet in a Second; with what Velocity would a Body of 8 lb. Weight move, if it were impell'd by the same Force?

Answer, 250 Feet in a Second.

There are two Bodies, one of which weighs 100 lb. the other 60, but the leffer Body is impell'd by a Force 8 times greater than the other; the Proportion of the Velocities wherewith these Bodies move, is requir'd?

Answer, The Velocity of the greater to that of the less, as 3 to 40.

There are two Bodies, the greater contains 8 times the Quantity of the Matter in the less, and is mov'd with a Force 48 times greater; the Ratio of the Velocities of these two Bodies is requir'd?

Answer, The greater to the less, as 6 to 1.

1. In comparing the Motions of Bodies; if their Velocities be equal, the Spaces describ'd by them shall be in the direct Proportion of the Times in which they are describ'd.

2. If the Times be equal, then the Spaces describ'd will be as their Velocities.

3. If the Times, and the Velocities be unequal, the Spaces will be in a Proportion, compounded of the Times and Velocities.

There are two Bodies, one of which moves 40 times swifter than the other; but the swifter Body has mov'd but one Minute, whereas the other has been in Motion two Hours: The Ratio of the Spaces describ'd by these two Bodies, is requir'd?

Answer The swifter to the slower, as I to 3.

Again, supposing one Body to move 30 times swifter than another, as also the swifter to move 12 Minutes, the other only 1: What Difference will there be between the Spaces by them describ'd, supposing the last has mov'd for Inches?

Answer 1705 Feet.

In comparing of Motions; the Ratio of the Times is compounded of the direct Ratio of the Spaces describ'd, and the reciprocal of the Celerities. There are two Bodies, one whereof has describ'd 50 Miles, the other only 5; the first had mov'd with 5 times the Velocity of the second: What is the Ratio then of the Times they have been describing those Spaces?

Answer As 2 to 1.

When an heavy Body is weigh'd in any Fluid, it loses therein so much of its Weight, as an equal Bulk of that Fluid is sound to weigh. Upon this Principle, suppose then, a cubic Inch of Standard Gold in the Air, weighs to Ounces Troy, and that by Experiments, a solid Inch of fresh Water is sound to weigh 256 Grains Troy: What will a Gold Chain weigh in Water, that raises a Fluid an Inch in a Vessel, 3 Inches square, when put into it?

Again; as the cubic Inch of Silver is found to be about 4,444 Ounces Iroy, lighter than one of Gold, supposing the Workman had adulterated the said Chain with 14 Ounces and a half of Silver: How much higher would the Water, upon its Immersion, have been raised in the said Vessel?

Answer 35 Ounces 4 Dwts.

Hiero King of Sicily, order'd his Jeweller to make him a Crown, containing 63 Ounces of Gold. The Workman thought, substituting part Silver therein, a proper Perquisite; which taking Air, Archimedes was appointed to examine it, who, on putting it into a Vessel of Water, sound it rais'd the Fluid, or that itself contain'd 8,2245 cubic Inches of Metal; and having discover'd, that the cubic Inch of Gold weigh'd 10,36 Ounces, and that of Silver but 5,85 Ounces, he, by Calculation, sound what Part of his Majesty's Gold had been changed: And you are desir'd to repeat the Process.

Answer P Alligation 26,9 Ounces.

In the Walls of Balbee in Turkey, the ancient Heliopolis, there are three Stones laid end to end, now in Sight, that measure in Length 61 Yards; one of which in particular is 63 Foot long, 12 Foot thick, and 4 Yards over: Now if this Block was Marble, every cubic Inch of which is at least an Ounce and half in weight; what Power wou'd balance it, so as to prepare it for moving?

Answer 659 Tons, the Burthen of a good East-India Ship.

The cubic Inch of common Glass weighs about 1,36 Ounces Troy; Do. of Salt Water ,5427; and of Brandy ,48926 Do. Suppose a Seaman hath a Gallon of this Liquor, in a Glass Bottle, that weighs 3½ lb. Troy out of Water; and to conceal it from the King's Officers, throws it overboard: The Question is, if it will fink, how much Force would just buoy it up?

Answer It is 12,8968 Ounces heavier than the same Bulk of Salt Water.

Another of the Mariners has half an Anchor of Brandy, of the specific Gravity above; the Cask, suppose, measures of a cubic Foot, and the solid Inch of Oak is known to be 192 of Grains Troy: What Quantity of Lead, 5,984 Ounces Troy to the cubic Inch, is just requisite to keep the Cask and Liquor under Water?

Answer 84 Ounces Troy will just do it.

The absolute Weight of a Body floting in a Fluid, is precisely equal to the Weight of such Part of the Fluid as shall be thrust away thereby and displaced, or, in other Words, to the immersed Part of the Body: Suppose then it be by Measurement sound, that a Man of War, with all her Ordnance, Rigging and Appointments, draws so much Water as to displace 1300 Tons of Sea-Water, weighing specifically as above, and that the Measure be taken according to that of London Beer; the Weight of this Vessel is required?

Answer Cwt. 23981 . 0 . 4 . 9 12.

#### A General RELEASE.

K NOW all Men by these Presents, That I [Henry Haveall, of London, Founder] have remised, released, and for ever quitted Claim, and by these Presents, do for me, my Heirs, Executors and Administrators, remise, release, and for ever quit Claim, unto [Lewis Lightpocket, Citizen and Lorimer of London] his Heirs, Executors and Administrators, all and all manner of Actions, Cause and Causes of Actions, Suits, Bills, Bonds, Writings obligatory, Debts, Dues, Duties, Accompts, Sum and Sums of Money, Judgments, Executions, Extents, Quarrels, Controversies, Trespasses, Damages and Demands whatsover, both in Law and Equity, or otherwise howsover; which against the said [Lewis Lightpocket] I ever had, now have, and which I, my Heirs, Executors and Administrators, shall or may have, claim, challenge or demand, for or by Reason or Means of any Matter, Cause or Thing, from the Beginning of the World, to the Day of the Date of these Presents. In Witness whereof, I have hereunto set my Hand and Seal, [the tenth Day of June, in the Year of our Lord, one Thousand Seven Hundred and Forty

Sign'd, Seal'd, Deliver'd (being first legally Stamp'd) in Prefence of

Henry Haveall, (L. S.)

L. M. N. O.

## A LETTER of ATTORNEY.

INOW all Men by these Presents, That I [the Lady Elizabeth Goring, of the Parish of Hampton, in the County of Middlesex, Widow have made, ordain'd, constituted and appointed; and by these Presents, do make, ordain, constitute and appoint [Edmund Wingate of Grays-Inn Ela;] to be my true and lawful Attorney, for me. and in my Name, and for my Use, to ask, demand and receive of, and from [Henry Long of St. Mary-la-bonne, Esq. Peter Randal of Pancras, Gent. Philip Ryley of Wandsworth, Dyer; and Jeremiah Holcomb of Islington, Inholder] their Executors, Administrators or Assigns, as well, all such Sum and Sums of Money as now are, or which shall or may, at any Time hereafter become due, and owing to me; for, or on Account of Rent, for the respective Tenures, by them, or fome of them now occupied and possessed; and upon Non-payment thereof, the said Person or Persons, his, or their Executors and Administrators, for me, and in my Name, to sue, arrest, imprison, implead, and profecute for the fame, and upon such Suit, to proceed to Judgment and Execution; and thereupon, the faid Person or Persons, their or either of their Executors and Administrators in Prison, to hold and keep, until Payment thereof be made, with all Costs, and Damages sustain'd, and to be sustained, by reason of the detaining of the same; And upon Payment thereof, the said Person and Persons, their and either of their Executors and Administrators, forth of Prison, to discharge, and Acquittances for me, in my Name to make, seal and deliver: and also, to perform, pursue, and execute all and every such other lawful and reasonable Acts, Means, and Things whatever, both for recovering and discharging the same, as shall be needful to be done: Giving, and by these Prefents, granting to my faid Attorney, not only my full and absolute Power in the Premises himself; but also Power to substitute and appoint one or more Attorney or Attorneys in his stead, to act, execute, do, and perform all lawful Acts, Deeds, or Things, with relation to the Premises, and ratifying and holding firm, all and whatfoever my faid Attorney, or his Substitutes beforesaid, shall lawfully do, or cause to be done, in or about the Premises, by Vertue of these Presents. In Witness whereof, I have hereunto set my Hand and Seal [the fourth Day of July, in the Year of our LORD, one Thousand seven Hundred and Forty

Seal'd and Deliver'd, (being first legally Stamp'd) in Presence of Y. Z. P. D.

Eliz. Goring, (L. S.)

FORM

## FORM of a WILL.

In the Name of GoD, Amen.

I [the Lady Arabella Earnly] of [Bromley, in the County of Kent, Widow] being of perfect Mind and Memory, make this my last Will and Testament: First, I desire to be privately buried [in the Parish Church of St. Anne, in the Liberty of Westminster, and that the Charges of my Funeral may not exceed forty Pounds.] My temporal Estate, I bequeath and dispose of, in the following Manner. Imprimis, [To my Daughter Alice, I bequeath the Sum of two thousand five bundred Pounds, my Indian Trunk, a Table Clock, and my Picture, done by Dahl.] Item, [To my Neice and God-daughter, Mary Peters, I bequeath my Diamond Ring, my Pearl Pendants, set with Brilliants, and an bundred Pounds to buy her Mourning.] Item, [To Mr. William Vernon, my Cousin, I bequeath the Sum of one Guinea to buy him a Ring.] Item, [To the poor of the Parish of Bromley aforesaid, I bequeath the Sum of ten Pounds to be paid to the Minister and Churchwardens, within ten Days after my Funeral, to be by them distributed as they see good, among their said Poor.] The Residue, and Remainder of my Estate, Lands, Tenements, Hereditaments, with my Goods, Chattels, Plate and Jewels, India Bonds, Arrears of Rent, with all other Properties of what kind soever, to me appertaining, I give, devise, and bequeath [To my Son Thomas] whom I constitute and appoint [the whole and sole] Executor of this my last Will and Testament; and I do hereby utterly revoke, disallow, and disanul all former Bequests, Wills, and Legacies by me heretofore in any wise less or made, declaring, ratifying, and constrming this, and no other to be my last Will and Testament: In Witness whereof, I have hereunto set my Hand and Seal, this [twelfib Day of May, in the Iear of our Lord, one Thousand seven Hundred and Forty.]

Sign'd, Seal'd, Publish'd and Declar'd, by the within nam'd Testatrix [the Lady Arabella Earnley] to be her last Will and Testament, in Presence of us, who subscrib'd our Names, in Presence of the said Testatrix.

C. D. E. F.

I. H.

Arabella Earnly, (L. S.)

it that remain and be in full Force and

free Dovof May, in the Rear of our Lond Do one The

Three Witnesses are requisite to a Will, if it concern a real Estate; which Witnesses are to see each other sign it, as well as the Testator. If the Estate be personal only, two may do. The Law exempts Wills from being made on stamp'd Paper.

# Transact Lent of Salt E. Deing of certos Mind and Diemore

W NOW all Persons, whom it may concern: That I [Lazarus Lackcast of Norwich, in the County of Norfolk, Goldsmith] for and in Consideration of the Sum of [fifty Pounds] of lawful Money of Great-Britain, to me in Hand paid, by [Dives Doubledun of London, Efq;] the Receipt whereof I do hereby acknowledge, have bargain'd, fold and deliver'd; and by these Presents, according to the due Form of Law, do bargain, sell and deliver unto the faid [Dives Doubledun, four Carratts of oriental Pearl; nine Grains of brait Diamonds; one Silver Teapot, weight twenty Ounces; one Silver Salver, weight ten Ounces; two Sets of Silver Cafters, weight thirty Ounces; and ten Cornelian Rings, feal'd up, by Confent, with my Seal.] To bave and to bold, the faid bargain'd Premises, unto the faid [Dives Doubledun] his Executors, Administrators, and Affigns for ever. And I the faid [Lazarus Lackcasb] for my felf, my Executors and Administrators, the said bargain'd Premises unto the said [Dives Doubledun] his Executors, Administrators and Affigns, against all Persons, shall and will warrant, and for ever defend by these Presents: Provided nevertbeles, that if I the said [Lazarus Lackcash] my Executors, Administrators or Assigns, or any of us, do and shall, well and truly pay, or cause to be paid unto the said [Dives Doubledun] his Executors. Administrators or Affigns, the Sum of [Fifty one Pounds five Shillings, as Principal and Interest] lawful Money of Great-Britain, on the [ first of November, next ensuing the Date bereof ] for Redemption of the bargain'd Premises; then this Present Bill of Sale shall be void, and of none Effect : But if Default be made in the Payment of the faid [ fifty one Pounds five Shillings] in part, or in the whole, contrary to the Manner and Form beforefaid; that then it shall remain and be in full Force and Virtue. In Witness whereaf, I have hereunto fet my Hand and Seal, the [ first Day of May, in the Year of our LORD, one Thousand Seven Hundred and Forty her laft AVill and Teffament, in Prefence of us,

Seal'd and Deliver'd, (being first legally Stamp'd) in Presence of

P. D. R. M. Lazarus Lackcash, (L. S.)

made on Samp'd Paper.

who fublond dour Names, in Preferre of the laid

\* If the bargain'd Premises be redeemable, by a limited Time, a Provise of this Nature is added.

as well as the Toffarm. If the Effare be perfored only, two may do. The Law exempts Wills from being

## A WARRANT of ATTORNEY, to confess Judgments

To [ John Carpenter, John Davis, and John Hodges, Gent. ] Attorneys of His Majeffs's Court of [ Common-Pleas at Westminster) jointly and severally, or to any other Attorney of the that concerns det make Affarance, and hereby cause handelt and them, and thur det in le affar de affarance, and hereby cause handelt and them, and one fame Court. not bell, at and trong the Port of Lendon, to the Port of ellicant, in the Especian of contract at and trong

HESE are to defire, and authorife you, the Attorneys above-named, any of you, or any other Attorney I of the Court of [Common-Pleas] aforesaid, to appear for me [ John Morris of Yatton, in the County of Somerfet, Teoman, in the faid Court of Common-Pleas, the next Trinity Term, or any [ubsequent Term] and then and there to receive a Declaration for me, in an Action of [ Debt for two bundred Pounds, besides Costs of Suit] at the Suit of [ Robert Creyghton, of the Liberty of St. Andrew in Wells in the County aforesaid, Dollor of Divinity ? And thereupon to confess the same Action, or else to suffer a Judgment, by He saith nothing, or I am not inform'd, or otherwise to pass against me, in the same Action, and to be thereupon forthwith entered up against me of Record [ in the same Court of Common-Pleas ] And, for your so doing, this shall be to you, or any of you, or to any other Attorney as aforesaid, your, his, their, or any of their sufficient Warrant : In Witness whereof, I have fet my Hand and Seal this [ twenty-fifth Day of February, one Thousand Seven Hundred Forty .]

Seal'd and Deliver'd (being first legally stamp'd) in Presence of,

humis (.2.4), sirrold indo to the Affiners are content to bear, and do to

hid Shir and Cargo, for to much as concerns the Affine day is an

of the Seas, Men of War, Fire, Licenies, Pyrates, Rovers, Thieves, Joseph . &ite. of Mart and Countries mark Surprivals and Takings at Seat Acres, Redrights, and Detainment of a. M. h. R. Princes, and People of

Note, This Instrument is of great Force and Validity, and wards off that Opprobrium of our Constitution, the Expences and Delays of Law-Proceedings; especially if a Clause be inserted, promising no Writ of Error shall be brought or prosecuted upon it, in Bar.

what Marion, Condition, or Quality foever, Barratry of the Mafter and Mariners, and of other Perils, Lolles

the Charges whereer we the Atlarcia will contribute each of its according to the Rate and Quantity of his Sum

The true Performance of the Promiter, conditing out the for the Contribution due to as not this Alliens, the

## [[8115]]

## A Poster of Assurance of a Ship and Cargo Out and Home.

NOW all Men by these Presents, That Clement Cautious of London, Merchant, as well in his own Name. as for and in the Name and Names of all and every other Person and Persons, whom the same may or shall concern, doth make Assurance, and hereby cause himself and them, and each of them, to be affur'd, lost or not loft, at and from the Port of London, to the Port of Alicant, in the Kingdom of Spain, and at and from thence back to London, upon all kinds of Goods and Merchandises, and also upon the Body, Tackle, Apparel, Ordnance, Munition, Artillery, Boat, and other Furniture, of and in the good Vellel, called the Bonny Tack, Burthen two hundred and eighty Tons, or thereabout, whereof Leonard Lookout, for the prefent Voyage, is Mafter. beginning the Adventure upon the faid Ship and Cargo, from and immediately following the Date hereof, and fo to continue and endure, until the faid Ship, with her faid Wares and Merchandizes on Board, her Tackle, Apparel. Ordnance, Munition, Artillery, Boat, and other Furniture, thall arrive at the Port of Alicant as aforefaid, and during her abode and flay there; and farther, until the faid Ship, with her Goods and Merchandiles on Board. with all her Appointments and Furniture beforefaid, firall arrive back at the Port of London, and hath there moor'd at Anchor four and twenty Hours in Safety, and upon the Goods and Merchandiles, till they be there discharged and landed. And it shall be lawful for the taid Ship, in this Voyage, to proceed and fall to, and touch and stay at any Ports and Places whatfoever; especially at Lisbon, and Gibraltar, without Prejudice to this Assurance. The faid Ship and Cargo, for for much as concerns the Affureds, is and shall be rated and valued at fix thousand five hundred Pounds Sterling, without farther Account to be given by the Affureds for the fame : And touching the Adventures and Perils, which we the Affurers are content to bear, and do take upon us in this Voyage, they are of the Seas, Men of War, Fire, Enemies, Pyrates, Rovers, Thieves, Jetzons, Letters of Mart and Countermart. Surprizals and Takings at Sea, Arrefts, Restraints, and Detainments of all Kings, Princes, and People of what Nation, Condition, or Quality foever, Barratry of the Mafter and Mariners, and of other Perils, Loffes and Misfortunes, that have or shall come to the Hurt, Detriment or Damage of the faid Ship, Wares and Merchandiles, on Board her, or any Part thereof. And in case of any Mistortune, it shall be lawful for the Assured, their Factors, Servants and Affigns, to fue, labour, and travel for, in and about the Defence, Safeguard and Recovery of the faid Ship, Wares and Merchandifes, or any Part thereof, without Prejudice to this Affurance; to the Charges whereof, we the Affurers will contribute each of us according to the Rate and Quantity of his Sum herein infured. And so we the Assurers are contented, and do hereby promise and bind ourselves, each for his own Part, our Heirs, Executors, Goods and Chatels to the Affured, their Executors, Administrators and Affigns, for the true Performance of the Premises, confessing ourselves paid the Consideration due to us for this Assurance, by the faid Clement Cautious, at and after the Rate of two & Cent, and in case of Loss, to abate ten & Cent, and to pay without farther Proof of any Interest whatsoever, more than this present Policy, any Use or Custom to the contrary notwithstanding. In Witness whereas, we the Assurers have subscrib'd our Names and Sums by us severally A rectangular four-filed Room measures 120 Feet 6 Jackes about, and with a sir sewolf as another in borning founds: After the due Allowances, for Gire of Cornice and Members, the sire of the due Allowances, for Gire of Cornice and Members, the sire of the due Allowances, for Gire of Cornice and Members, the sire of the due Allowances, for Gire of Cornice and Members, the sire of the due Allowances, for Gire of Cornice and Members, the sire of the due Allowances and the due Allowan

I A. B. am contented with this Affurance, for one thousand five hundred Pounds: Witness my 3 1500 7, and, London, Day of Anno 174 Inches broad : The Door and Window-Shatters, being wrought on

I C. D. am contented with this Allurance, for eight hundred Pounds, &c, from the appendical

The Affureds chufe to have this Bufiness transacted by several Hands, when a private Affurance is taken, to have Beards to project to lactes on a Side : What will the new oping an Out boute coil, the distribute of the project to proje

S Skill in MEASURING is almost necessary to make young People competent Judges of General Business; and the casting up the Contents of fuch things, as are the Subject of GEOMETRY, is to be effected by Numbers, as well as any Calculation whatever, some few Examples, express'd in a familiar Way. for the fake of the Beginner, are here subjoin'd; with Intention to give him a small Infight into this Affair, and to excite his Curiofity, to look into Authors that have treated this useful and delightful Subject more at large: Mean time, the judicious Mafter will take the Trouble to delineate and explain the Figures intended by the Propositions, in order to affift his Pupil in the Conception of what he is about : And such Eye-draught will, in great measure, point out, or suggest, the Method of Investigation.

# which are controlled to the rest of the RECREATION XIX. and the controlled to the state of the Rest of

# SUPERFICIAL MEASUREMENT. SUPERFICIAL MEASUREMENT.

THAT is to be measur'd upon the Surface only, as Land, Glass, Painting, Flooring, Tyling, Paving, Plaistering, &c. if it be a four-fided Figure, whose opposite Sides are every where equally distant, multiplying the Length into the perpendicular Height, finds the superficial Content. And, consequently, the superficial Content. and any one of those Dimensions being given, the other of them will be found by Simple Division.

deficer a Pere, 24 - Poles.

I wink fer 2484 Plants in Rows, creat 4 Foot alon er, and the Plants 7 Frot apart, in a reclangular Plat of

Ground : Wint Land will this take up !

What Difference is there between a Floor, 28 Foot long, by 20 broad; and two others, that measure 14 Foot a-piece by 10; and what do all three come to, at 45 s. & Square; viz. 10 Feet by 10?

Anfwer 280 Sq. Ft. Diff. Amount, 18 1. 18 s.

A rectangular four-fided Room measures 129 Foot 6 Inches about, and is to be Wainscoted, at 35.6 d. P Yard square: After the due Allowances, for Girt of Cornice and Members, 'tis 16 Foot 3 Inches high: The Door is 7 Feet, by 3 Feet 9: The Window-Shutters, 2 Pair, are 7 Foot 3, by 4 Foot 6: The Cheek-boards round them, come 15 Inches below the Shutters, and are 14 Inches in breadth: The Lining-boards round the Door-way, are 16 Inches broad: The Door and Window-Shutters, being wrought on both sides, are reckon'd as Work and half, and paid for accordingly: The Chimney 3 Foot 9, by 3 Foot, not being inclosed, is to be deducted from the superficial Content of the Room; and the Estimate of the Charge is required?

Answer 44 l. 4s. 6d.

When a Roof is of a true Pitch, the Rafters are \$\frac{1}{2}\$ of the Breadth of the Building; now supposing the Eave's Boards to project 10 Inches on a Side: What will the new riping an Out-house cost, that measures 32 Foot 9 In. long, by 22 Foot 9 In. broad, upon the Flat, at 15 s. \$\frac{1}{2}\$ Square?

If my Court-Yard be 47 Foot 7 Inches Square, and I have laid a Foot-way of Purbeck Stone, 4 Foot wide, along one fide on't: What will paying the rest, with Flints, come to, at 6 d. Yard Square?

A square Ceiling contains 114 Yards, 6 Foot of Plaist'ring, and the Room 28 Foot broad: What was the Length of it?

An Elm Plank is 14 Foot 3 Inches long, and I would have just a Yard square slit off; at what Distance, from the Edge, must the Line be struck?

Anfwer 7 Inches 199

Having a rectangular Marble Slab, 58 Inches by 27; I would have a Foot square cut off, parallel to the shorter Edge; I would then have the like Quantity divided from the Remainder, parallel to the longer Side; and this alternately repeated, 'til there should not be the Quantity of a Foot left: What will the Dimensions of the Remaint be?

Answer 20,7 Inches, by 6,086.

Breath: How many of the shorter Rows will there be?

Answer 252 Rows, viz. 1 of the Trees are to form an exact Square, the Side whereof shews, how many come into a short Row.

I would fet 3584 Plants in Rows, each 4 Foot asunder, and the Plants 7 Foot apart, in a rectangular Plat of Ground: What Land will this take up?

Answer i Acre, 24 + Poles.

A common Joist is 7 Inches deep, and 2 thick; but I want a Scantling just as big again, that shall be three Inches thick: What will the other Dimension be?

Answer 11 Inches 3.

I have a fquare Girder, 19 Inches by 11; but one of a quarter of the Timber in it, provided it be 9 Inches deep, will ferve: How broad will it be?

Answer 5 Inches 36.

I have a Wooden Trough, that at 6 d. \$\psi\$ Yard, cost me 3 s. 2 d. Painting within; the Length of it was 102 Inches, the Depth 21 Inches: What was its Breadth?

Answer 2 Feet, 3 Inches.

My Plummer has put 28 lb. & Foot square into a Cistern, 74 Inches and twice the Thickness of the Lead long, 26 Inches broad, and 40 deep; he has put three Stays within across it 16 Inches deep, of the same Strength, and reckons 22 s. & Cwt. for Work and Materials: I being a Mason, have pav'd him a Work-shop, 22 Foot 10 Inches broad, with Purbec Stone, at 7 d. & Foot, and upon the Balance, I find there is 3 s. 6 d. due to him: What was the Length of his Work-shop.

Answer 31 Foot, 9 1 Inches.

The rectangular Powdering Trough of a Man of War measures 27 square Foot 112 Inches, the Depth is 20

Inches, the Breadth 16: The Length is fought?

Answer 5 Foot.

In 110 Acres of Statute-Measure, in which the Pole is 16 1/2 Foot long; how many Cheshire Acres, where the customary Pole is 6 Yards long; and how many Yorkshire, where the Pole, in Use, is 7 Yards in Length?

Answer Cheshire Acres, 92. 1. 28 Yorkshire Acres, 67. 3. 25.

A triangular or three-sided Figure, (being the half of a four-sided one of the same Height and Length) if you multiply the Base, or longest Side, by the shortest Height, you have double the Content.

A triangular Field, 738 Links long, and 583 in the Perpendicular, brings in 12 l. a Year: What is it fet at an Acre?

Answer 51. 11 s. 61 d. nearly.

The End-Wall of an House, is 24 Foot 6 Inches in breadth, and 40 Foot to the Roof; \(\frac{1}{3}\) of which is 2 Bricks thick; \(\frac{1}{3}\) more, I \(\frac{1}{2}\) Brick thick; and the rest I Brick thick: Now the Gable rises 38 Course of Bricks (4 of which usually make a Foot in depth) and this is but 4 Inches, or half a Brick thick: What will this Piece of Work come to, at 5 \(\frac{1}{2}\). 10 \(\frac{1}{2}\). Statute Rod, the Dimensions of which are given Page 44 of this Treatise?

Answer 20 1. 11 s. 7 1 d. nearly.

When the Perpendicular of a Triangle cannot readily be taken, the Content may be found by the Measure of the Sides, thus: Subtract each of the three Sides, from half the Sum of the three Sides, feverally; then multiply

the faid half Sum, with the three Differences found, continually; and the square Root of the Result, shall be the Area or Content of the Triangle sought.

Having a Fish-pond of a triangular Form, whose three Sides measure 400 Yards, 348, and 312: What Quan-

tity of Ground does it cover

Answer 52284 + fquare Yards.

The Quarry of Glass 3 1 Inches on every Side, and as much cross the middle, costs 1 d. the Square is 5 1 Inches, by 3 1, and costs 1 1 d. what will be saved, by glazing 1000 Foot, the cheaper of the two Ways; supposing the Leading of the Lights to be nearly equal, in either kind of Work?

Answer 2 l. 10 s. 3 1 d.

Every other right-lin'd Figure, be it regular or not, may be divided into Triangles; the Sum of whose Areas, is

the Content; for Example,

A Piece of Garden-Box, lies in Form of a regular Pentagon, or Figure of five equal Sides, each 48 Foot; and from the Centre of the Figure, to the middle of one of these, it measures 41,57 Foot nearly. The Area of the Figure will be the Content of these five Triangles; pray what is that?

Anfwer 4988,4 Foot.

The Square of the Hypothenuse, or the longest Side of a right-angled Triangle, is equal to the Sum of the Squares of the other two Sides; and consequently, the Differences of the Squares of the Hypothenuse, and either of the other Sides, is the Square of the remaining Side.

I want the Length of a Shoar, that being to ftrut II Foot from the Upright of a Building, will support a Jamb,

23 Foot 10 Inches from the Ground?

Answer 26 Foot, 3 Inches nearly.

A Line, 27 Yards long, will exactly reach from the Top of a Fort, on the opposite Bank of a River, known to be 23 Yards broad; the Height of the Wall is requir'd?

Answer 42 Foot, 5 Inches.

Two Ships let fail from the same Port, one of them goes due East, 50 Leagues; the other, due North, 84: How far are they then asunder.

Answer 97 1 Leagues.

The Height of an Elm, growing in the middle of a circular Island, 30 Foot in Diameter, plumbs 53 Foot; and a Line, stretch'd from the Top of the Tree, streight to the hither Edge of the Water, 112 Foot: What then is the Breadth of the Moat, supposing the Land on either side the Water to be level?

Answer 83 Foot 3.

Suppose a Light-house built on the Top of a Rock; the Distance between the Place of Observation, and that Part of the Rock level with the Eye, and directly under the Building, is given 310 Fathoms; the Distance from the Top of the Rock, to the Place of Observation, is 423 Fathoms; and from the Top of the Building 425: The Height of the Edifice is requir'd?

Answer 16 1 Feet nearly.

A Ladder, 40 Foot long, may be so planted, that it shall reach a Window 33 Foot from the Ground, on one Side the Street; and without moving it at the Foot, will do the same by a Window 21 Foot high, on the other Side: The Breadth of the Street is requir'd?

Aufwer 56 75 Foot. An antient Bath was found, of a triangular Form, the Sum of whose three equal Sides was 125 Foot: The Area of the Bottom is requir'd?

Answer 751 & Square Foot. The Paving of a triangular Court, at 18 d. 4 Foot, came to 100 l. the longest of the three Sides was 88 Foot: What then was the Sum of the other two equal Sides?

Answer 106,85 Foot. I would plant 10 Acres of Hop-Ground, which must be done, either in the square Order, or as the Number stands on the Dice, or in the quincunx Order, as the Number 5; the nearest Binds, in both Cases, must be set just 6 Foot asunder: How many Plants more will be required, for the last Order than for the first?

Answer 3744. A Summer-House is a Cube of 10 Foot in the clear, the Cornice of which projects just 15 Inches on a Side, so. that the whole Front of the Roof, from out to out, is 13 1 Foot. This is hipped off from each of the Corners to the Centre, and being truly Pediment-pitch, it rifes of the Front, or 3 Feet. I would, by help of these Dimensions, measure the Slating without venturing to climb for more, and compute the Cost at 3 d. 40 square Foot, This may be done by first discovering what the diagonal Line on the Flat is transversely from Corner to Corner. And, secondly, from thence and the perpendicular Rise of the Roof, the Length of each of the 4 principal Rafters. And then, thirdly, from the Breadth of the Front given, a Perpendicular may be found, which will determine the Cost of this Piece of Work to be 2 l. 18 s. 2 d. nearly.

There are two Columns, in the Ruins of Persepolis, left standing upright; one is 64 Foot above the Plane, the other 50: Between these, in a right Line, stands an antient Statue, the Head whereof is 97 Foot from the Summit of the higher, and 86 Foot from the Top of the lower Column; the Base whereof measures just 76 Foot to the Centre of the Figure's Base: By these Notices, the Distance of the Top of the Columns may be, by Numbers, eafily found?

Answer 157 Foot. A triangular Bath, 6 Foot deep, is exactly inclosed by 3 square Pavillions, and is consequently rectangular, the Sum of whose Plans, together, make just 50 Poles: The Area of A. the less, is to that of B. the middle one, as 4 to 8; and the Sum of the Areas of A. and C. the biggest, is to that of B. as 8 to 4: How many Wine-Hogheads of Water will this Bath receive?

Answer 1163 Hogsheads, 47 & Gallons, is a first to the to the Aren of any other a the aren of

ered at a book of the trutte

A four-fided Figure, whose Sides are unequal, is call'd a Trapeze: I have an Orchard of that Form, containing 2 Acres, which being divided by a Diagonal, or a Line, from Corner to Corner, the Perpendicular of one of the Triangles is 430 Links, and the other 360: The Length of the faid Diagonal, or common Base of those Triangles, is requir'd?

Answer 949 30 Links. The Areas of Circles are found, either by multiplying half the Circumference, by half the Diameter, or by multiplying the Square of the Diameter, by ,7854, that being the Area of the Circle, whose Diameter is 1.

Give the Area of a circular Bowling-Green, that is 16 Poles across the Middle; the Circumference being

3,1416 times the Diameter of a Circle?

Answer I Acre, 41 Pole, &c.

I would turf a round Plat, measuring 130 Foot about; and would know the Charge at 4 d. 4 Yard Iquare? Answer 21. 9s. 10 d. nearly.

I want the Length of a Line, by which my Gardiner may strike a round Aurangerie, that shall contain just half

an Acre of Land?

Answer 27 3 Yards nearly.

Agreed for an oaken Curb to a round Well, at 8 d. 4 Foot square; it is exactly 42 Inches in Diameter, within the Brick-work, and the Breadth of the Curb is to be 14 1 Inches: What will it come to?

Answer IIs. IId. nearly.

It is observed that the extreme End of the Minute-hand of a public Dial moves just 5 Inches in the Space of 3 1 Minutes: The Question is what is the Length of that Index?

Answer 14,60 Inches. A. B. C. join for a Grind-stone, 36 Inches over, value 20 s. toward which A. paid 7 s. B 8 s. and C 5 s. The Wafte-hole, through which the Spindle paffed, was 5 Inches Square: To what Diameter ought the Stone to be worn, when B. and C. begin feverally to work with it?

Answer, For B. to 29,324 Inches; for C. to 19,013 Inches.

As the Diameter of a Circle, is the only necessary Dimension to find the greatest Square that may either be inscrib'd, or the smallest that may be circumscrib'd: I demand what Difference there is in the Area of the Section of a round Tree, 20 Inches over, consider'd both those ways; and how far the Result, from each of those Dimenfions, differs from the Truth in the circular Measure?

Answer, Within 114,16 Inches too little; without 85,84 Inches too much.

Having pav'd a Semi-circular Alcove with black and white Marble, at 2 s. 4 d. Foot, the Mason's Bill was just 10 1. what then was this Arch in Front; considering, that as ,7854, the Area of the Circle, the Square of whose Diameter is 1, is to 1; so is the Area of any other Circle, to the Square of its Diameter?

Answer 14 Foot 9 Inches.

Multiplying

Multiplying half the Arch by half the Diameter, also finds the Area of a Sector; that is, any Part of a Circle cut through, from the Centre to the Circumference.

The Area of a Sector (suppose one of the Divisions of a Wilderness) which being struck from a Centre, with a

Line 30 Yards long, makes the Sweep, or circular Part, 63 Foot, is requir'd?

Answer 315 Yards.

The Curvature of one of these Sectors being parted off by a strait Line, drawn through its Limits, leaves a Segment of a Circle, to be measur'd, by deducting the Content of the Triangle, cut off from the Area of the whole Sector, to discover the Area of the Segment.

The Proposition above may serve as an Example to this, allowing the Chord, or streight Line, drawn through

the two Ends of the Curve (as it will be found) about 15 Inches shorter, than the arch'd Line abovesaid.

Content of the Segment, 25 Yards nearly.

An Ellipse or Oval is measur'd by multiplying the Product of the long and short Diameters, by ,7854, as in the Circle, and this will give the superficial Content.

The Ellipse in Grosvenor Square measures 840 Links the longest Way, and 612 across, within the Rails; the

Walls are 14 Inches thick; what Ground do they inclose, and what do they stand upon?

Answer, Inclose 4 Acres 6 Pole. Wall stands on 879,12728 square Feet nearly.

The Dimensions of all similar Figures are in Proportion to their Areas, as the Squares of their respective Sides. et contra.

If a round Pillar, 7 Inches over, has 4 Foot of Stone in it; of what Diameter is the Column, of equal Length, that measures ten times as much?

Answer 22,136 Inches over.

A Pipe of fix Inches Bore will be 3 Hours in running off a certain Quantity of Water: In what time will 4 Pipes, each 3 Inches Bore, be in discharging double the Quantity? Answer, 6 Hours.

A Yard of Rope o Inches round weighs, suppose, 22 lb. what will a Fathom of that weigh, which measures

a Foot about?

Answer, 78 2 lb .. If 20 Foot of Iron-Railing shall weigh half a Ton, when the Bars are an Inch and quarter square, what will 50 Feet of Ditto come to, at 3 d. Pound; the Bars being but 7 of an Inch Square?

Anfwer, 201.

A Looking-glass is 16 Inches by 9, and contains a Foot of Glass: What will the Content of the Plate be that has twice the Length, and three times the Breadth? Answer, 6 Sq. Foot

A Sack that holds 3 Bushels of Corn is 22 1 Inches broad when empty; what wou'd the Sack contain that, being

of the same Length, had twice its Circumference, or twice its Breadth?

Answer, A Quarter and a half.

## RECREATION XX.

#### MEASUREMENT of SOLIDS.

Multiply the Area by the Depth, to find the Solidity of uniform Bodies, or such as are equal from Top to Bottom.

What is the Difference of a folid half Foot, and half a Foot folid?

Answer, One is but & of the other.

What is the Proportion, in point of Space, between a Room 25 1 Foot long, 20 Foot 2 Inches broad, 14 Foot

high, and two others of just the Dimensions?

As 4 to 1.

Another Room is 17 Foot 7 Inches long within; 13 Foot 10 Inches broad, and 9 Foot 6 Inches high; it has a Chimney carried up streight in the Angle, the Plan whereof is just the half of 5 Foot 6 Inches, by 4 Foot 2: The Question is, how many cubic Foot of Air the same will contain, allowing the Content of the Fire-place and Windows at 4 folid Yards?

Answer, 2309 Foot, 10 3 Inches.

A Ship's Hold is 112 Foot 6 Inches long, 32 broad, and 5 Foot 6 deep; how many Bales of Goods 3 Foot 4 Inches long, 2 Foot 4 Inches broad, and 3 Foot deep, may be stowed therein, leaving 1 Gang-way the whole Length

of 4 Foot and 1 broad?

Answer, The Quantity of 729 1 nearly.

I want a rectangular Cistern, that at 16 lb. to the Foot Square, shall weigh just a Fodder of Lead, it must be 8 Foot long, and 4 over; how many Hogsheads, Wine Measure, will this contain, taking it at 1 of an Inch from the Top?

Answer, 16 Hogsheads 40 Gallons.

A Log of Timber is 18 Foot 6 Inches long, 18 Inches broad, and 14 thick, Die-square all through: Now, if 2 solid Foot and 2 be saw'd off the End; how long will the Piece then be?

Answer, 17 Foot, 215

The folid Content of a square Stone is found to be 126 \(\frac{1}{4}\) Foot, its Length is 8 Foot 6 Inches; what is the Area of one End, and what the Depth, if the Breadth affigned be 38 \(\frac{1}{4}\) Inches.

Answer, 55,55 Inches deep.

The Dimensions of the circular Winchester Bushel are 18; Inches over, and 8 Inches deep; how many Quarter of Grain then will the square Bin hold, that measures 7 Foot 10 long, 3 Foot 10 broad, and 4 Foot 2 deep within?

Answer, 12, 5c.

Taking the Dimensions of the Bushel, as above, what must the Diameter of the circular Measure be, which at 12 Inches deep will hold 9 Bushels of Sea-Coal struck?

Answer, 45 Inches 18.

A Prism of two equal Bases, and fix equal Sides, that measures 28 Inches cross the Centre, from Corner to Corner; the superficial and the solid Content is required, taking the Length at 134 Inches?

Answer, Superf. 9 Yards, 4 Foot, 3 Inches. Solid 39 Foot, 819 Inches.

I have

I have a rolling Stone 44 Inches in Circumference, and am to cut off 3 cubic Foot from one End; whereabouts must the Section be made?

Answer, At 33,66 Inches.

I would have a Syringe an Inch and in the Bore, to hold a Pint Wine-Measure of any Fluid; what must the Length of the Piston, sufficient to make an Injection with it, be?

Answer, 23,5204 Inches.

I would have a cubic Bin made capable of receiving just 13 2 Quarters of Wheat, Winchester-Measure; what will be the Length of one of its Sides?

Answer, 61,4678 Inches.

A Bath Stone, 20 Inches long, 15 over, and 8 deep, weighs 220 lb. how many cubic Foot thereof will freight a Ship of 290 Tons?

Answer, 4101 Foot.

The common Way of measuring Timber, being to girt a round streight Tree in the middle, and to take to of the Girt for the side of a Square, equal to the Area of the Section there; if this be not considered in the Price appointed, pray on which Side lies the Advantage?

Answer, For the Buyer near 13 Foot in a Load.

The Cylinder, Globe, and Cone, are in proportion to one another, as 3, 2, and 1. The Cube therefore of the Diameter, of any Cylinder of equal Height and Breadth, multiply'd by ,7854, the Area of the Circle, whose Diameter is 1, will always give the Solidity of that Cylinder. The Cube of the Diameter of a Globe again multiply'd by \( \frac{2}{3} \) thereof or ,5236, gives the solid Content. And the said Cube, multiply'd by \( \frac{1}{3} \) of that, or ,2618, produces in general the Solidity of any Cone whose Breadth and Height are equal. By this Rule the solid Content of a Globe, 20 Inches in Diameter, a Cylinder of the same Diameter, 20 Inches long; and a Cone 20 Inches Diameter at Base, and 20 Inches high, are severally requir'd?

Cone, 2094,4. Globe, 4188,8, Cylinder, 6283.2.

The superficial Content of these is found by considering the Cylinder, as a square Surface 20 Inches by the Circumference, adding a double Area for the two Bases. The Globe, as a Rectangle of the Diameter and Circumference; and the Cone, as a Triangle, whose Base is the Circuit, and Perpendicular the slope Height, adding once the Area of the Base. At 8 d. \$\psi\$ Yard, the Painting of them is found to amount to 2 s. 1 \(\frac{2}{3}\) d.

Our Satellite the Moon is a Globe, in Diameter 2170 Miles; I require how many Quarter of Wheat the would contain, if hollow, 2150 15 folid Inches being the Bushel; and how much yard-wid; Stuff would make her a Waistcoat, was she to be cloth'd?

Answer, Content 79107034948470144000 Quarters. Surface 45824284391424 Yards Sq. Supposing the Atmosphere, or Body of the Air and Vapours, surrounds the Globe of the Earth and Sea, to 60 Miles above the Surface; the Earth is 7970 Miles in Diameter; how many cubic Yards of Air then hang about, and revolve along with this Planet; and what is the Weight of the whole Mass of fluid Matter in the Atmosphere contain'd, if at a Medium 12 l. Avoirdupoiz be found experimentally, as in Fact it is, to press upon every circular Inch, on the Surface of the Earth?

Answer, Measure 66264254274148761600 solid Yds. Weight 1224019163676672000 Pds. Avoirdupoix. When Figures run uniformly taper (but not to a Point) they are to be consider'd as Frustums or Portions of the Cone or Pyramid; by supplying, therefore, what is wanting to make the Figure entire, and then deducting the Part cut off, we find the Solidity of the Part proposed.

## RECREATION.

A round Mash-Vat, measures at the Top 72 Inches over within, at the Bottom 54, the perpendicular Depth being 42 Inches; the Content in Ale Gallons is required?

In order to complete the Cone, use this Analogy: As half the Difference of the Top and Bottom 9 Inches, are to the Depth 42 Inches; so is half the greater Diameter 36 Inches, to the Altitude of the whole Cone.

It holds Gall. 467, and almost a half.

Or elfe; to the Areas of the Top and Bottom, add the square Root of the Products of those Areas, and this mul-

tiply by 1 of the Height of the Frustum, for the Solidity.

The Shaft of a round Pillar, 16 Inches in Diameter at the Top, is about 8 of the Bottom Diameters in Height, whereof is truly cylindrical, and the other \(\frac{3}{2}\) fwelling, but we'll suppose it tapers streight; it is \(\frac{1}{2}\) less at Top than at Bottom; the Price of the Stone and Workmanship is sought at 3s. 6 d. \(\phi\) cubic Foot; and farther the superficial Content, including both Ends?

Answer, 3l. 10s. 4\(\frac{1}{2}\) d. &c. Superf. 61\(\frac{1}{10}\) Foot.

A triangular Pyramid, whose Sides, at Base, measure 30 Inches a-piece, and is 21 Foot high, the Slope, is to be sold at 7 s. to folid Foot; and if the polishing the Surface will be 8 d. to Foot more, I would know the Cost of this Stone when finish'd?

Answer, 91. 5 s. 2 d.

A Stick of square Timber tapers streight; the Side at the greater End is 19 1 Inches, at the less, 13 1 Inches, the Length 16 Foot 6 Inches, the Value, at 25, 6 d. P Foot solid, is demanded?

Anfever, 31. 18 s. 10 d.

To measure a common Cask: Find the Areas at Head and Bung, add 3 of the less, and 3 of the greater, for a mean Area; this multiply'd by the Length of the Cask is its Solidity in Inches, which reduce. Or, II. To double the Square of the Bung Diameter, add that of the Head; then multiply by the Length of the Cask, and divide by 1077,24 for Beer, or by 882,42 for Wine Gallons.

What Quantity of Brandy will the Distiller's Tun contain that measures 40 Inches within at Head, 52 at Bung,

and is 100 Inches long; and how many Barrels of London Ale would fill it?

Answer; Brandy 794 &c. Ale 20 Bar. 10 1 Gall.

## FINIS.

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#### ADDENDA & CORRIGENDA.

BESIDES a few literal Mistakes, the Reader will please P. 6. 1. 15. to obliterate to. P. 46. 1. 30. to alter by Miles, to 60 Miles. At the Bottom of P. 55. to add what follows,

No Bill of Exchange ought, in other Cases, to be paid by the Accepter before 'tis fully due, without the Allowance and even Direction of the Remitter in Writing. For as the Remitter delivered his Money to the Drawer, in order to have it paid again, at a limited time, to such Persons as be shall direct, it is and ought to be in his Power, to guide and even to divert the Payment, by altering the Bill, and making it payable to any other Person whomsoever be shall think sit, during the whole Time, between that of Acceptance and the Day of Payment. And shou'd the Acceptant pay it inadvertently to any one, and that Person happen to fail before it falls really due, he will be liable to pay it to the Remitter a second Time.

P. 97. l. 22. to read 3 Pump-rods. And Ibid. 1. 34. how much more.

